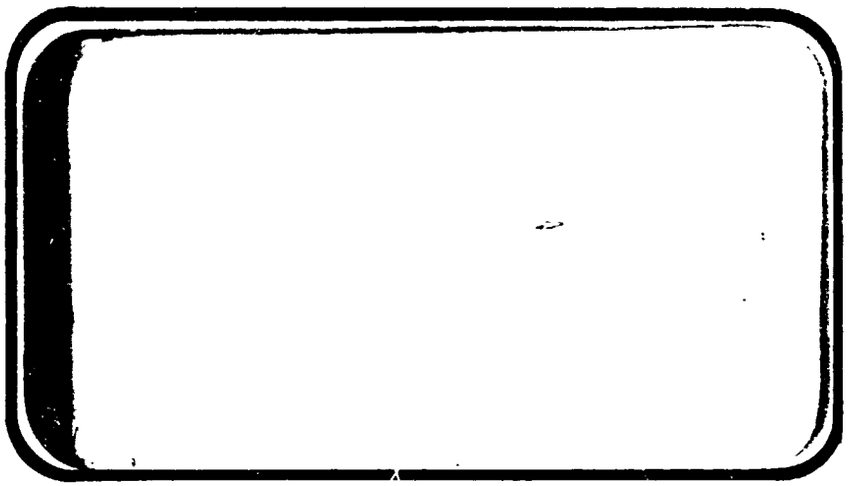
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION



SPACE SHUTTLE

AEROTHERMODYNAMIC DATA REPORT

JOHNSON SPACE CENTER

HOUSTON, TEXAS

DATA MANagement services

SPACE DIVISION CHRYSLER CORPORATION

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EFFECTS OF THE AIR BREATHING PROPULSION SYSTEM ON SPACE SHUTTLE ORBITER SUBSONIC STABILITY AND CONTROL CHARACTERISTICS (OA71A)

By

Robert Mennell
Rockwell International

Prepared under NASA Contract Number NAS9-13247

by

Data Management Services
Chrysler Corporation Space Division
New Orleans, La. 70189

for

Engineering Analysis Division

Johnson Space Center
National Aeronautics and Space Administration
Houston, Texas

WIND TUNNEL TEST SPECIFICS:

Test Number: NAAL 708

NASA Series No.: OA71A

Test Date: 27 July thru 3 August 1973

FACILITY COORDINATOR:

R. B. Russell
Rockwell International B-1 Division
Los Angeles International Airport
Los Angeles, California 90009

Phone: (213) 670-9151 - X-3343

PROJECT ENGINEER:

R. C. Mennell
Rockwell International
Los Angeles International Airport
Los Angeles, California 90009

Phone: (213) 670-9151 - X-3343

DATA MANAGEMENT SERVICES:

This document has been prepared by:

for D. A. Sarver
Liaison Operations — R J. Burst

W. M. Hale
Data Operations — William M. Hale Jr.

This document has been reviewed and is approved for release.

for N. D. Kemp
Data Management Services — J. T. Kemp

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ABSTRACT

Experimental aerodynamic investigations were conducted on an 0.0405 scale representation of the -89B (2A) Space Shuttle Orbiter in the Rockwell International 7.75 x 11.00 Foot Low Speed Wind Tunnel during the time period from July 27, 1973 to August 3, 1973. The NASA designation for this test series was 0A71A.

The primary test objective was to investigate the aerodynamic effects of engine nacelle grouping and location on the orbiter ferry mission configuration. Five nacelles were tested, both individually mounted as well as mounted in a "podded" configuration, at the baseline position and moved 45.0 inches aft (full scale).

Orbiter control effectiveness, both with and without nacelles, was recorded at elevon deflections of 0°, 5°, 10°, -10° and -20° and aileron deflections, about 0° elevon, of 0°, 5°, 10°, and 15°. The model was sting mounted on a 2.5 inch diameter internal strain gage balance entering through the base region. The nominal angle of attack range was $-4^\circ \leq \alpha \leq 30^\circ$. Yaw polars were recorded over the beta range of $-10^\circ \leq \beta \leq 10^\circ$ at fixed angles of attack of 0° and 10°.

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(B) CY, CYN, CBL vs. ALPHA

(C) DCY/DA, DCYNDA, DCBLDA vs. ALPHA

(D) CY, CYN, CBL vs. BETA

NOMENCLATURE
General

SYMBOL	SADSAC SYMBOL	DEFINITION
a		speed of sound; m/sec, ft/sec
C_p	CP	pressure coefficient; $(p_l - p_\infty)/q$
M	MACH	Mach number; V/a
p		pressure; N/m^2, psf
q	Q(NSM) Q(PSF)	dynamic pressure; $1/2\rho V^2$, N/m^2, psf
RN/L	RN/L	unit Reynolds number; per m, per ft
V		velocity; m/sec, ft/sec
α	ALPHA	angle of attack, degrees
β	BETA	angle of sideslip, degrees
ψ	PSI	angle of yaw, degrees
ϕ	PHI	angle of roll, degrees
ρ		mass density; kg/m^3, $slugs/ft^3$
		Reference & C.G. Definitions
A_b		base area; m^2, ft^2
b	BREF	wing span or reference span; m, ft
c.g.		center of gravity
ℓ_{REF} $\bar{c}$	LREF	reference length or wing mean aerodynamic chord; m, ft
S	SREF	wing area or reference area; m^2, ft^2
	MRP	moment reference point
	XMRP	moment reference point on X axis
	YMRP	moment reference point on Y axis
	ZMRP	moment reference point on Z axis

SUBSCRIPTS

b	base
l	local
s	static conditions
t	total conditions
∞	free stream

NOMENCLATURE (Continued)

Body-Axis System

SYMBOL	SADSAC SYMBOL	DEFINITION
C_N	CN	normal-force coefficient; $\frac{\text{normal force}}{qS}$
C_A	CA	axial-force coefficient; $\frac{\text{axial force}}{qS}$
C_Y	CY	side-force coefficient; $\frac{\text{side force}}{qS}$
C_{A_b}	CAB	base-force coefficient; $\frac{\text{base force}}{qS}$ $-A_b(p_b - p_\infty)/qS$
C_{A_f}	CAF	forebody axial force coefficient, $C_A - C_{A_b}$
C_m	CLM	pitching-moment coefficient; $\frac{\text{pitching moment}}{qSl_{REF}}$
C_n	CYN	yawing-moment coefficient; $\frac{\text{yawing moment}}{qSb}$
C_l	CBL	rolling-moment coefficient; $\frac{\text{rolling moment}}{qSb}$
		Stability-Axis System
C_L	CL	lift coefficient; $\frac{\text{lift}}{qS}$
C_D	CD	drag coefficient; $\frac{\text{drag}}{qS}$
C_{D_b}	CDB	base-drag coefficient; $\frac{\text{base drag}}{qS}$
C_{D_f}	CDF	forebody drag coefficient; $C_D - C_{D_b}$
C_Y	CY	side-force coefficient; $\frac{\text{side force}}{qS}$
C_m	CLM	pitching-moment coefficient; $\frac{\text{pitching moment}}{qSl_{REF}}$
C_n	CLN	yawing-moment coefficient; $\frac{\text{yawing moment}}{qSb}$
C_l	CSL	rolling-moment coefficient; $\frac{\text{rolling moment}}{qSb}$
L/D_f	L/DF	lift to forebody drag ratio, C_L/C_{D_f}

NOMENCLATURE (Continued)
ADDITIONS TO NOMENCLATURE

SYMBOL	SADSAC SYMBOL	DEFINITION
A_{BC}	ABC	balance cavity area, ft.^{2}
CA_{B_C}	CABC	balance cavity axial force coefficient.
CA_N	CAN	coefficient of axial force due to nacelle internal duct drag.
CA_T	CAT	model axi force weight tare coefficient.
Cm_N	CLMN	coefficient of pitching moment due to nacelle internal duct drag.
$C_{\ell_{\delta_a}}$	DCBLDA	rolling moment coefficient aileron derivative, per degree.
Cn_{δ_a}	DCYNDA	yawing moment coefficient aileron derivative, per degree.
CY_{δ_a}	DCY/DA	side force coefficient aileron derivative, per degree.
L_B	LB	orbiter fuselage length, ft.
$P_{b1}, P_{b2}, P_{b3}, P_{b4}, P_{b5}$		model base pressures at orifice numbers 1 - 5, respectively, psia.
P_{BC}		model balance chamber pressure, psia.
NAC X/L	NACX/L	air breathing engine nacelle longitudinal location, fraction of body length, positive aft of nominal position.
XCP/L	XCP/L	longitudinal center of pressure location, fraction of body length.
δ_a	AILRON	aileron deflection angle, degrees.
δ_e	ELEVON	elevon deflection angle, degrees.
δ_r	RUDDER	rudder deflection angle, positive deflection, trailing edge left; degrees.

SYMBOL	SADSAC SYMBOL	DEFINITION
δ_{SB}	SPDBRK	speed brake deflection angle, degrees.
δ_F	BDFLAP	flap, surface deflection angle, positive deflection, trailing edge down; degrees.
δ_v	VTLINC	vertical tail incidence, positive when trailing edge left; degrees.
$\Delta\delta_a$	DAILRN	incremental aileron deflection, degrees.

CONFIGURATIONS INVESTIGATED

The model used for this test period was an 0.0405 scale representation of the -89B (2A) Space Shuttle Orbiter. The basic model is of the blended wing-body design utilizing a double delta wing ($75^{o}/45^{o} \Lambda_{LE}$), full span elevons (unswept hingeline), a centerline vertical tail with rudder and for rudder flare capability, a canopy, and a manipulator arm housing. To complete this orbiter ferry configuration air breathing engine nacelles were located in various groupings and locations on the wing and fuselage as per VL73-000054A.

All model components were per the -89B configuration except for the fuselage lines from station 1307 aft and the various engine nacelle groupings and locations.

The orbiter model was constructed either of wood and/or aluminum and was mounted on the Task Corporation 2.5 inch MK IX internal strain gage balance. The following nomenclature was used to designate the various model components:

Component	Description
B16	-89B fuselage
C5	-89B canopy
D7	-89B manipulator arm housing
E18	Full span elevon used on wing W87
F1	Body flap used on fuselage B16
J14	Air breathing propulsion system consisting of two podded nacelles and one $\mathfrak{L}$ nacelle

Component	Description
J17	Air breathing propulsion system consisting of five individual nacelles.
R3	Rudder used on vertical tail V_3.
V3	ATP centerline vertical tail.
W87	-89B double delta wing ($75°/45°/\Lambda_{LE}$).
X9	Transition grit located on model nose and all swept surfaces.
X10	Transition grit located on model nose, all swept surfaces, and ABPS nacelles.

TEST FACILITY DESCRIPTION

The North American Aerodynamics Laboratory (NAAL) 7.75 x 11-Foot Wing Tunnel is a continuous flow, closed circuit, single return type tunnel capable of speeds up to 200 miles per hour. The test section is vented to atmospheric pressure and is 7.75 x 11 feet wide by 12 feet in length. Power is supplied by a 1250 horsepower nacelle mounted synchronous motor driving a 19 foot, seven blade, laminated birch propeller. The airspeed is controlled by varying the degree of coupling between the motor and propeller by means of a magnetic clutch. A damping screen and honeycomb section in the settling chamber upstream from the contraction cone (ratio 7.53 to 1) minimizes turbulence in the test section. The NAAL Wind Tunnel has been in operation since June 1943 and calibrations are available over a wide range of test conditions.

Tests may be conducted using a variety of mounting systems, e.g.; a single strut, double strut, sting strut, reflection plane, cable suspension, and two dimensional wall. Aerodynamic data may be measured by a planar type external balance system or sting mounted internal balances. An Astrodata Automatic Data Acquisition System is used to collect, multiplex, digitize, and record 50 channels of force and/or pressure data on magnetic tape. This data is then rapidly reduced and plotted using automatic data processing equipment and an automatic digital plotter.

DATA REDUCTION

The aerodynamic force and moment data presented were measured by the Task Corporation 2.5 inch MK IX strain gage balance. The data have been corrected for model base and balance chamber pressure effects, nacelle internal drag, model blockage influence on tunnel dynamic pressure, wall interference effects, sting and balance deflections, and model weight tare.

The corrections to axial force were accomplished in the following manner:

$$C_{A_f} = C_A - C_{A_{BC}} - C_{A_B} - C_{A_N} - C_{A_T}$$

where:

$$C_{A_{BC}} = -\left(\frac{P_{BC} - P_S}{q}\right)\left(\frac{A_{BC}}{S}\right)$$

and: $C_{A_B} = -\left(\frac{P_b \quad P_S}{q}\right)\left(\frac{A_b}{S}\right)$, $P = 1/5\ (P_{b1} + \ldots + P_{b5})$

C_{A_N} = Nacelle internal drag correction.

C_{A_T} = Model axial force weight tare.

The following reference dimensions were used for reducing the aerodynamic data to coefficient form:

Symbol	Definition	Value
A_b	Area of base, ft^2	0.51939
A_{BC}	Area of balance cavity, ft^2	0.13635
S(SREF)	Area of wing, ft^2	4.4123
XMRP	Center of gravity, fus. sta.	43.5974
ZMRP	Center of gravity, waterplane	16.2000

DATA REDUCTION (Concluded)

Symbol		Definition	Value
L_B		Length orbiter body, in.	53.7840
$\bar{c}$ (LREF)		Wing MAC, in.	19.2300
b (BREF)		Wing span, in.	37.9350
C_{A_N}	=	Axial force correction due to J_{14} nacelle	0.00206
		Axial force correction due to J_{17} nacelle	0.00206
C_{m_N}	=	Pitching moment correction due to J_{14} nacelle	0.000670
		Pitching moment correction due to J_{17} nacelle	0.000665

TABLE I.

TEST : OA71A - NAFL 706 DATE : 5/6/73

TEST CONDITIONS

MACH NUMBER	REYNOLDS NUMBER (per unit length)	DYNAMIC PRESSURE (pounds/sq. inch)	STAGNATION TEMPERATURE (degrees Fahrenheit)
0.200	1.44×10^6/Ft.	60 lbs/ft^2	80 → 120 °F

BALANCE UTILIZED: TASK 2.5 INCH MK IX

	CAPACITY:	ACCURACY:	COEFFICIENT TOLERANCE:
NF	1500 lbs	± .25%	
SF	750 lbs	"	
AF	200 lbs	"	
PM			
RM			
YM	4000 in-lbs	± .25%	

COMMENTS:

TABLE II.

TEST: 0A71A - NAAL703 — DATA SET/RUN NUMBER COLLATION SUMMARY — DATE: 8/6/73

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	PARAMETERS/VALUES δF	δe	δa	δr	δsB	δA: X/L	NO. OF RUNS	MACH NUMBERS .20	TEST RUN NUMBER
RDS 001	B1C5D7F1W87E13V3R3X7	A	0	-18	0	0	0	0		1	1	
002		0	F								2	
003		10									3	
004		A	0		5						4	
005					0	5					5	
006					-10	0					6	
007					0	10					7	
008					10	0					8	
009					-20						9	
010					0	15					10	
011	B1C5D7F1W87E13V3R3X7								0		11	
012					-20	0					12	
013					10						13	
014					0	10					14	
015					-10	0					15	
016					0	5					16	
017					5	0					17	
019					0						19	

1 7 13 19 25 31 37 43 49 55 61 67 75 76

CL | CDF | CLM | CN | CAF | CYN | CBL | CY | XCP/L | CAB | MACH | 1.0

COEFFICIENTS

α OR β SCHEDULES

α(A) = -4, -2, -1, 0, 1, 2 → 30, Δα = 2°

β(F) = -10, -5, 0, 5, 10

TABLE II. (Continued)

TEST : OA71A - NAAL 708 — DATA SET/RUN NUMBER COLLATION SUMMARY — DATE 3/6/73

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	PARAMETERS/VALUES δF	δe	δa	δR	δsb	IIAC X/C	NO. OF RUNS	MACH NUMBERS .20	TEST RUN NUMBERS
RDS 020	B1uC5D7F1J1AW87E2aV3R3X10	0	F	-18	0	0	0	0	0	1	20	
021		10	↓								21	
022		A	0						↓		22	
023		↓	↓						.20		23	
024		0	F								24	
025		10	↓		↓						25	
026		A	0		5	↓					26	
027					↓	5					27	
028					-10	0					28	
029					↓	↓					29	
030					0	10					30	
031					10	0					31	
032					-20	↓					32	
033	↓				0	15					33	
035	B1uC5D7F1J1AW87E2aV3R3X10				↓	↓					35	
037					-20	0					37	
038					10	↓					38	
039	↓	↓	↓	↓	0	10	↓	↓	↓	↓	39	

1 7 13 19 25 31 37 43 49 55 61 67 75 76

α OR β SCHEDULES: α(A) = -4, -2, -1, 0, 1, 2 → 30, Δα = 2°
β(F) = -10, -5, 0, 5, 10

COEFFICENTS — I.C. AR (1) — I.C. AR (2) — N.C.

TABLE II. (Concluded)

TEST: OA71A - NAAL 708

DATA SET/RUN NUMBER COLLATION SUMMARY

DATE: 3/6/73

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	δ_F	δ_e	δ_a	δ_R	δ_{SB}	NPC ½	NO. OF RUNS	MACH NUMBERS .20 (TEST RUN NUMBERS)
RDS040	$B_uC_5D_7F_1J_{17}W_{67}E_{19}V_3R_3X_{10}$	A	0	-18	-10	0	0	0	.20	1	40
041					0	5					41
042					5	0					42
043					0	0					43
044		0	F								44
045		10									45
046		A	D						0		46
047		0	F								47
048		10									48
049		A	D		5						49
050					0	5					50
051					-10	0					51
052					0	10					52
054					10	0					54
056					-20						56
057					0	15					57

1 7 13 19 25 31 37 43 49 55 61 67 75 76

COEFFICENTS

α OR β SCHEDULES

$\alpha(A) = -4, -2, -1, 0, 1, 2 \rightarrow 20°, \Delta\alpha = 2°$

$\beta(F) = -10, -5, 0, 5, 10$

TABLE III.
DIMENSIONAL DATA

MODEL COMPONENT: BODY - B16

GENERAL DESCRIPTION: -89B FUSELAGE

SCALE MODEL = 0.0405

DRAWING NUMBER: VL72-000087

DIMENSIONS:	FULL-SCALE	MODEL SCALE
Length ~IN.	1328.30	53.796
Max. Width		
Max. Depth ~IN.	248.00	10.044
Fineness Ratio		
Area ~ft^2		
Max. Cross-Sectional	355.28	0.583
Planform		
Wetted		
Base		

TABLE III. (Continued)

MODEL COMPONENT: CANOPY C5

GENERAL DESCRIPTION: -89B CANOPY

SCALE MODEL = 0.0405

DRAWING NUMBER: VL70-000092

DIMENSIONS:	FULL-SCALE	MODEL SCALE
Length		
Max. Width		
Max. Depth		
Fineness Ratio		
Area		
Max. Cross-Sectional		
Planform		
Wetted		
Base		
STA. FWD. BULKHEAD, fus. sta.	391.00	15.836
STA. T.E., fus. sta.	560.00	22.680

TABLE III. (Continued)

MODEL COMPONENT: MANIPULATOR ARM HOUSING D7

GENERAL DESCRIPTION: -89B MAH

SCALE MODEL = 0.0405

DRAWING NUMBER: _____

DIMENSIONS:	FULL-SCALE	MODEL SCALE
Length ~ IN.	881.00	35.681
Max. Width ~ IN.	51.00	2.066
Max. Depth ~ IN.	20.00	0.810
Fineness Ratio	_____	_____
Area		
Max. Cross-Sectional	_____	_____
Planform	_____	_____
Wetted	_____	_____
Base	_____	_____
L.E INTERSECTS FUS. @ STA.	426.00	17.253
T.E. INTERSECTS FUS. @ STA.	1307.00	52.934

TABLE III. (Continued)

MODEL COMPONENT: BODY FLAP - F1

GENERAL DESCRIPTION: BODY FLAP LOCATED ON LOWER AFT PORTION OF FUSELAGE TRAILING EDGE

SCALE MODEL = 0.0405

DRAWING NUMBER: VL70-000003A

DIMENSIONS:	FULL-SCALE	MODEL SCALE
Length - IN.	236.54	9.580
Max. Width		
Max. Depth		
Fineness Ratio		
Area ~ ft^2		
Max. Cross-Sectional		
Planform	199.75	0.328
Wetted		
Base		
FLAP L.E. fus. sta., in	1528.30	61.896
FLAP T.E. fus. sta., in	1650.56	66.848

TABLE III. (Continued)

MODEL COMPONENT: AIR BREATHING PROPULSION SYSTEM J14

GENERAL DESCRIPTION: FIVE UNDERWING NACELLES – TWO TWIN PODDED PLUS ONE ON BOTTOM CENTERLINE, 12 INCH DIVERTER USED ON TWIN PODS

SCALE MODEL = 0.0405

DRAWING NUMBER: VL70-000054A

DIMENSIONS: PER NACELLE	FULL-SCALE	MODEL SCALE
Length – IN.	224.50	7.092
Max. Width – IN.	55.00	2.228
Max. Depth – IN.	55.00	2.228
Fineness Ratio		
Area – IN^2		
Max. Cross-Sectional	2377.10	3.879
CAPTURE	2043.60	3.352
Wetted (INTERNAL)	35993.30	59.038
Base		

NACELLE STA 0.0 @	OUTB'D	INB'D	CENTER
MODEL STATION – IN.	38.475	38.475	38.475
WATERPLANE – IN.	10.041	10.041	9.424
THRUST LINE			
BUTTOCK PLANE – IN	±11.583	±8.910	0.000
INCIDENCE – DEG.	3.933	3.933	3.933

TABLE III. (Continued)

MODEL COMPONENT: AIR BREATHING PROPULSION SYSTEM JT7

GENERAL DESCRIPTION: FIVE UNDERWING NACELLES - INDIVIDUAL NACELLE INSTALLATION.

SCALE MODEL = 0.0405

DRAWING NUMBER: SS-A00139

DIMENSIONS:	FULL-SCALE	MODEL SCALE
Length - IN.	224.50	9.092
Max. Width - IN.	55.00	2.228
Max. Depth - IN.	55.00	2.228
Fineness Ratio		
Area - IN^2		
Max. Cross-Sectional	2377.10	3.899
CAPTURE	2043.60	3.352
Wetted (INTERNAL)	35923.30	59.038
Base		

NACELLE STA. 0.0 @	OUTB'D	INB'D	CENTER
MODEL STATION - IN.	40.500	36.450	38.475
WATERPLANE - IN.	10.250	9.533	9.434
THRUST LINE			
BUTTOCK PLANE - IN.	±12.920	± 8.910	0.000
INCIDENCE - DEG.	3.933	3.933	3.933

TABLE III. (Continued)

MODEL COMPONENT: WING W87

GENERAL DESCRIPTION: DOUBLE DELTA WING (75°/45° Λ-LE)

SCALE MODEL = 0.0405

DRAWING NUMBER: VLT-000093

DIMENSIONS:	FULL-SCALE	MODEL SCALE
TOTAL DATA		
Area - ft^2		
Planform	2689.38	4.411
Wetted		
Span (equivalent)- ft	77.17	3.125
Aspect Ratio	2.214	2.214
Rate of Taper	1.176	1.176
Taper Ratio	0.209	0.209
Diehedral Angle, degrees @ X/C = 75.33%	3.861	3.861
Incidence Angle, degrees	3.000	3.000
Aerodynamic Twist, degrees	—	—
Toe-In Angle	—	—
Cant Angle	—	—
Sweep Back Angles, degrees		
Leading Edge	44.873	44.873
Trailing Edge	-10.242	-10.242
0.25 Element Line	35.050	35.050
Chords: - IN.		
Root (Wing Sta. 0.0)	690.19	27.953
Tip, (equivalent)	144.30	5.844
MAC	476.76	19.309
Fus. Sta. of .25 MAC	1136.12	46.013
W.P. of .25 MAC	289.44	11.722
B.L. of .25 MAC	181.03	7.330
Airfoil Section		
Root	—	—
Tip	—	—
EXPOSED DATA		
Area - ft^2	1746.87	2.865
Span, (equivalent)- ft	59.16	2.396
Aspect Ratio	2.004	2.004
Taper Ratio	0.256	0.256
Chords - IN.		
Root	562.77	22.792
Tip	144.30	5.844
MAC	394.81	15.990
Fus. Sta. of .25 MAC	1185.17	47.997
W.P. of .25 MAC	291.56	11.808
B.L. of .25 MAC	250.54	10.147
LEADING EDGE CUFF		
PLANFORM AREA - ft^2	121.42	0.199
L.E. INTERSECTS FUS. @ STA.	560.00	22.860
L.E. INTERSECTS WING @ STA.	1035.00	41.918

TABLE III. (Continued)

MODEL COMPONENT: ELEVON E1B

GENERAL DESCRIPTION: UNSWEPT HINGELINE ELEVON USED ON WING W87

SCALE MODEL = 0.0405

DRAWING NUMBER: VL70-000073

DIMENSIONS:	FULL-SCALE	MODEL SCALE
Area - ft^2	205.52	0.337
Span (equivalent) - IN.	353.34	14.310
Inb'd equivalent chord - IN.	114.78	4.649
Outb'd equivalent chord - IN.	55.00	2.228
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	0.208	0.208
At Outb'd equiv. chord	0.400	0.400
Sweep Back Angles, degrees		
Leading Edge	0.000	0.000
Tailing Edge	-10.020	-10.020
Hingeline	0.000	0.000
Area Moment (Normal to hinge line) ft^3	1543.09	2.539

TABLE III. (Continued)

MODEL COMPONENT: VERTICAL TAIL V_3

GENERAL DESCRIPTION: CENTERLINE VERTICAL TAIL WITH RUDDER AND/OR SPEED BRAKE DEFLECTION CAPABILITY

SCALE MODEL = 0.0405

DRAWING NUMBER: _____

DIMENSIONS:	FULL-SCALE	MODEL SCALE
TOTAL DATA		
Area- ft^2		
Planform	404.95	0.664
BLANKETED (INC. ABOVE)	32.05	0.052
Span (equivalent)- IN.	297.58	11.740
Aspect Ratio	1.565	1.565
Rate of Taper	0.504	0.504
Taper Ratio	0.434	0.434
Diehedral Angle, degrees	-	-
Incidence Angle, degrees	-	-
Aerodynamic Twist, degrees	-	-
Toe-In Angle	0.000	0.000
Cant Angle	0.000	0.000
Sweep Back Angles, degrees		
Leading Edge	45.000	45.000
Trailing Edge	26.361	26.361
0.25 Element Line	41.150	41.150
Chords:- IN.		
Root W.P. S. 0.00	253.35	10.463
Tip, (equivalent) W.P. 809.89	112.12	4.541
MAC W.P. 645.88	194.66	7.892
Fus. Sta. of .25 MAC	1492.28	60.437
W.P. of .25 MAC	645.88	26.157
B.L. of .25 MAC	0.00	0.00
Airfoil Section	5° HALF ANGLE DOUBLE WEDGE SECTION	
Root		
Tip		
EXPOSED DATA		
Area		
Span, (equivalent)		
Aspect Ratio		
Taper Ratio		
Chords		
Root		
Tip		
MAC		
Fus. Sta. of .25 MAC		
W.P. of .25 MAC		
B.L. of .25 MAC		

TABLE III. (Concluded)

MODEL COMPONENT: RUDDER R3

GENERAL DESCRIPTION: RUDDER USED ON CENTERLINE VERTICAL TAIL V3.

SCALE MODEL = 0.0405

DRAWING NUMBER: _____

DIMENSIONS:	FULL-SCALE	MODEL SCALE
Area - ft^2	115.63	0.190
Span (equivalent) - IN.	223.34	9.045
Inb'd equivalent chord - IN.	97.09	3.932
Outb'd equivalent chord - IN.	52.02	2.107
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	0.400	0.400
At Outb'd equiv. chord	0.400	0.400
Sweep Back Angles, degrees		
Leading Edge	34.889	34.887
Tailing Edge	26.361	26.361
Hingeline	34.887	34.887
Area Moment (Normal to hinge line) - ft^3	647.77	0.043

Notes:

1. Positive directions of force cofficients, moment coefficients, and angles are indicated by arrow
2. For clarity, origins of wind and stability axes have been displaced from the center of gravity

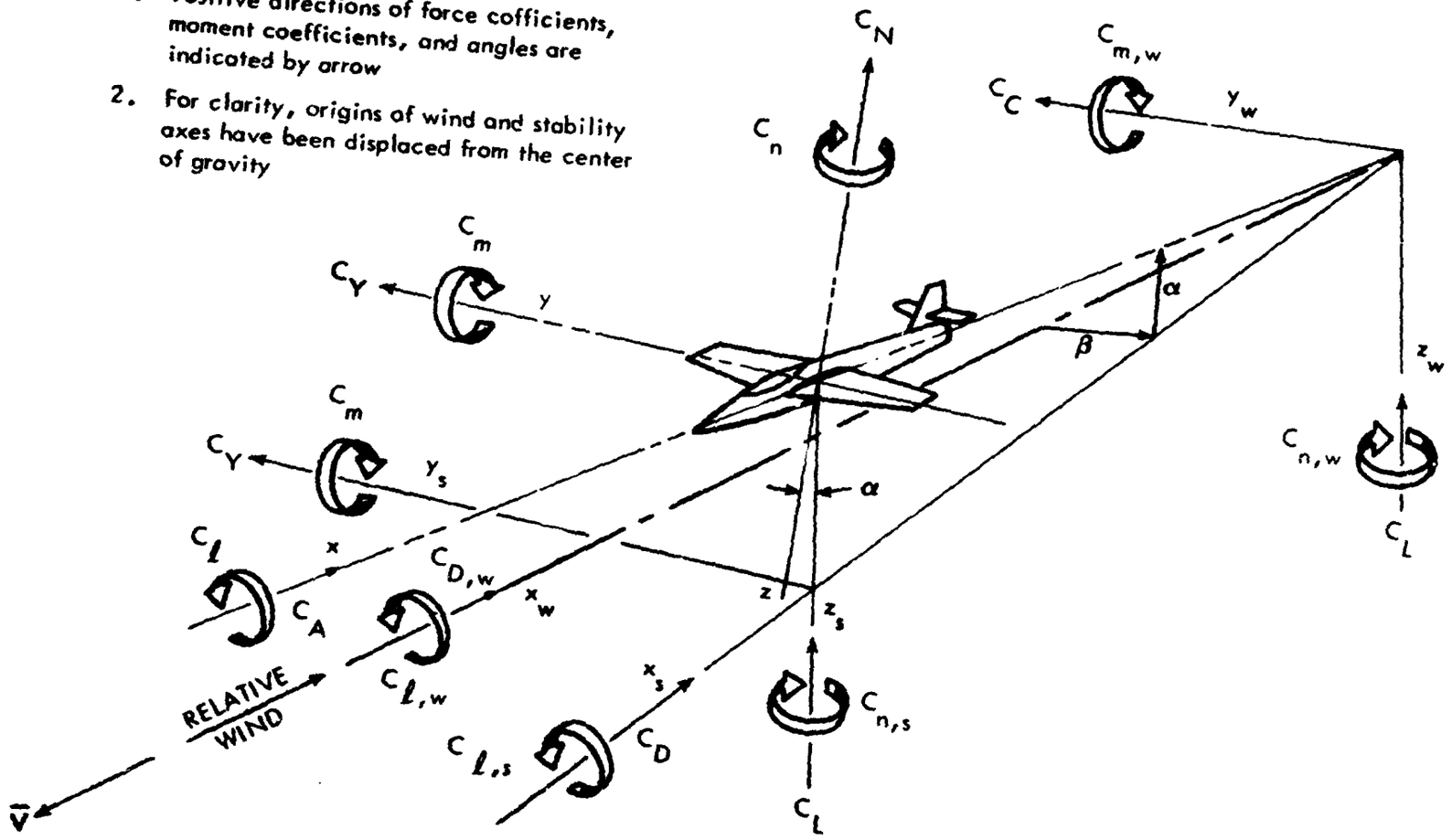
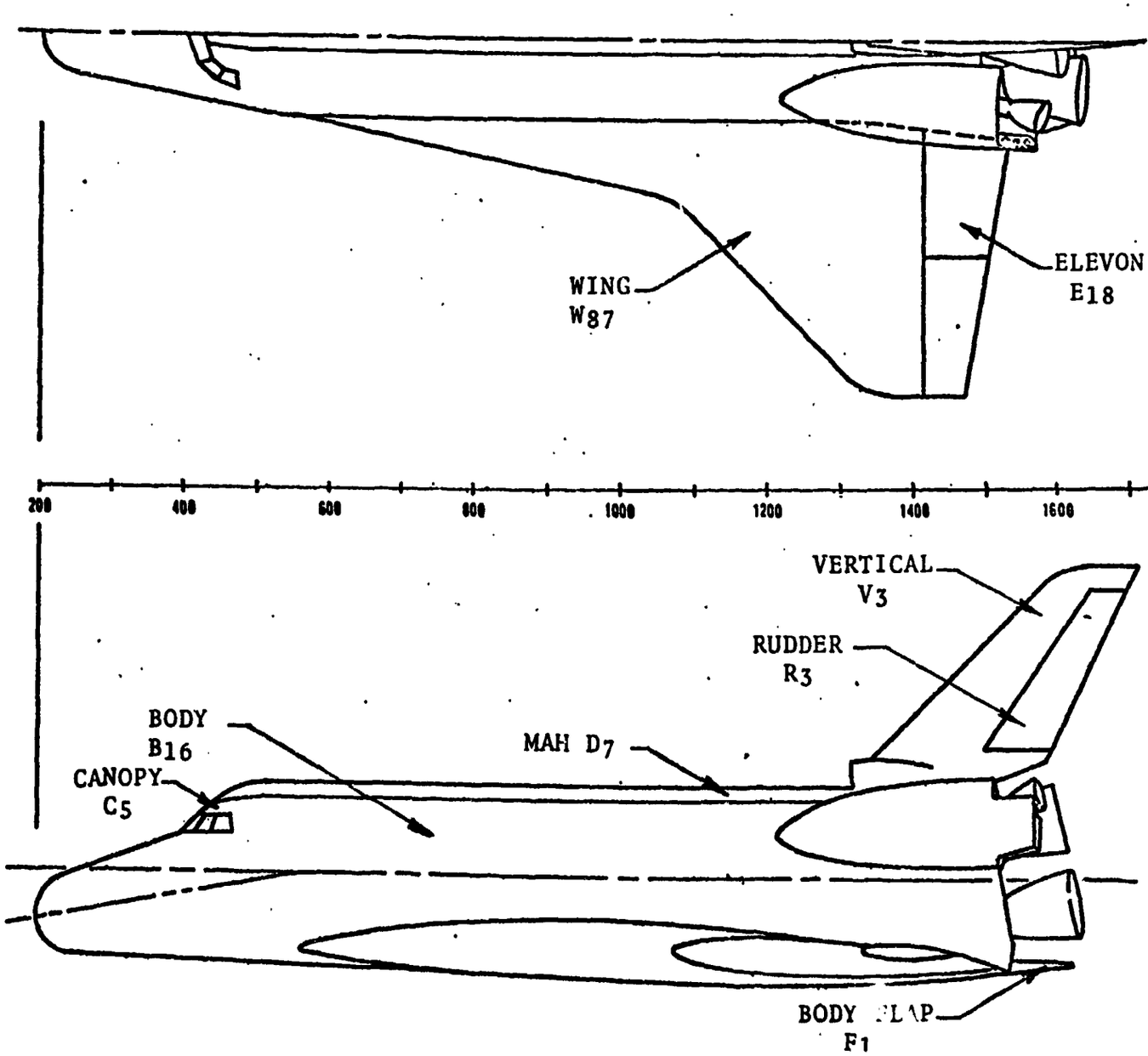


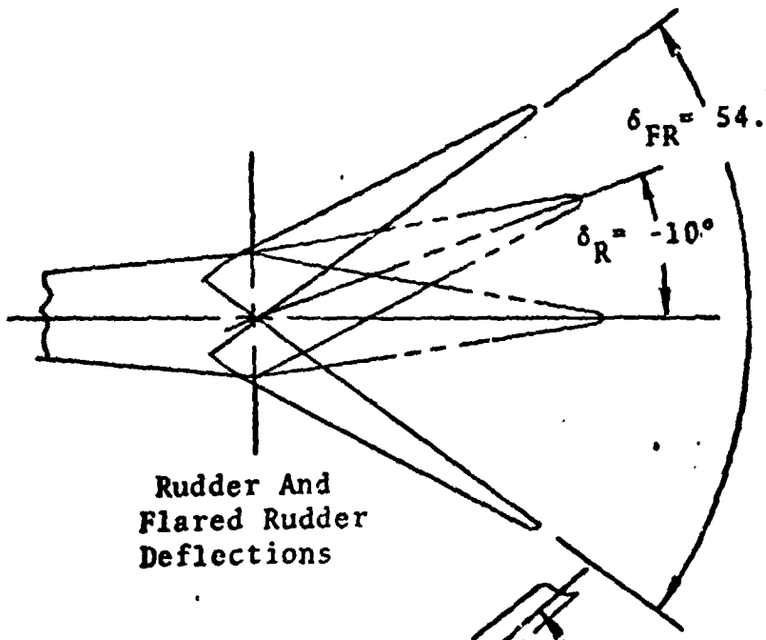
Figure 1. - Axis Systems.

S_W	=	2690.00 ft^2
C_W	=	474.81 in
b_W	=	936.68 in
C.G.X	=	1076.48 in
C.G.Z	=	400.00 in
L_B	=	1328.00 in

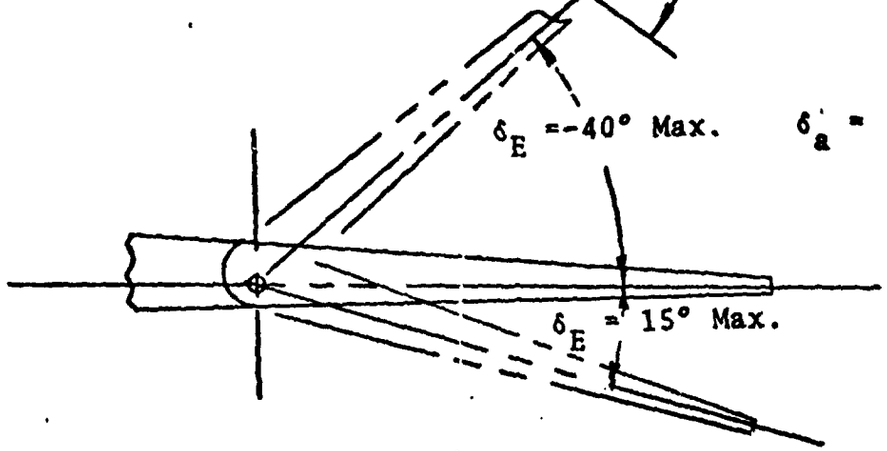


a. General arrangement -89B Orbiter

Figure 2. - Model Sketches.



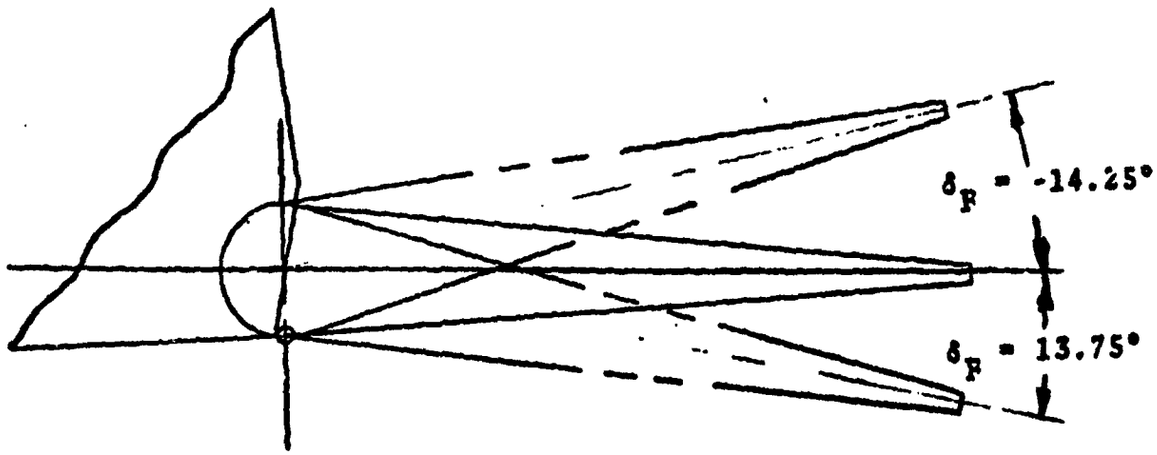
Rudder And
Flared Rudder
Deflections



$$\delta_a = \frac{\delta_{E_L} - \delta_{E_R}}{2}$$

$$\delta_E = \frac{\delta_{E_L} + \delta_{E_R}}{2}$$

Aileron & Elevon Deflections



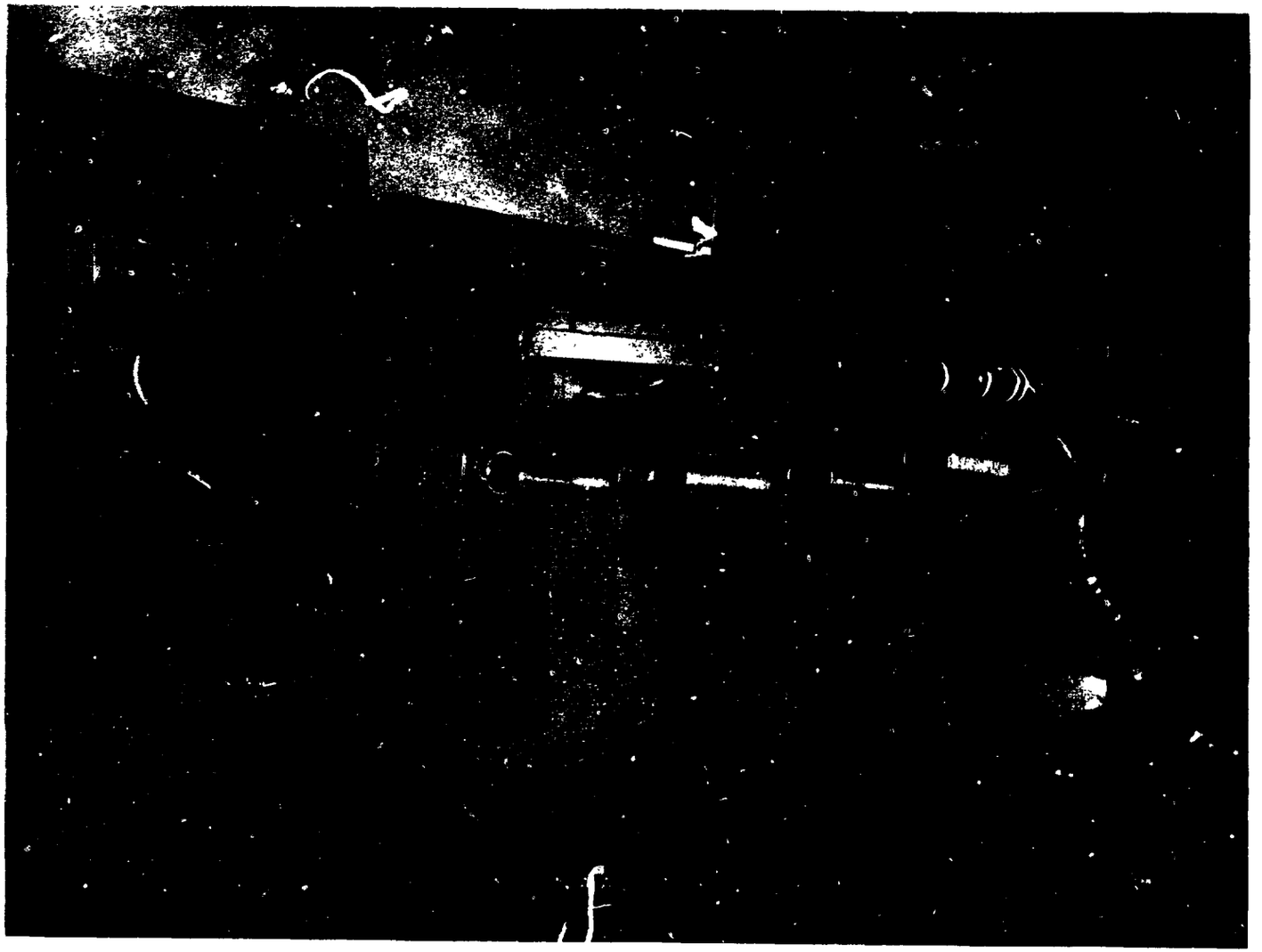
Body Flap Deflections

b. Sign convention for control surfaces

Figure 2. - Concluded.

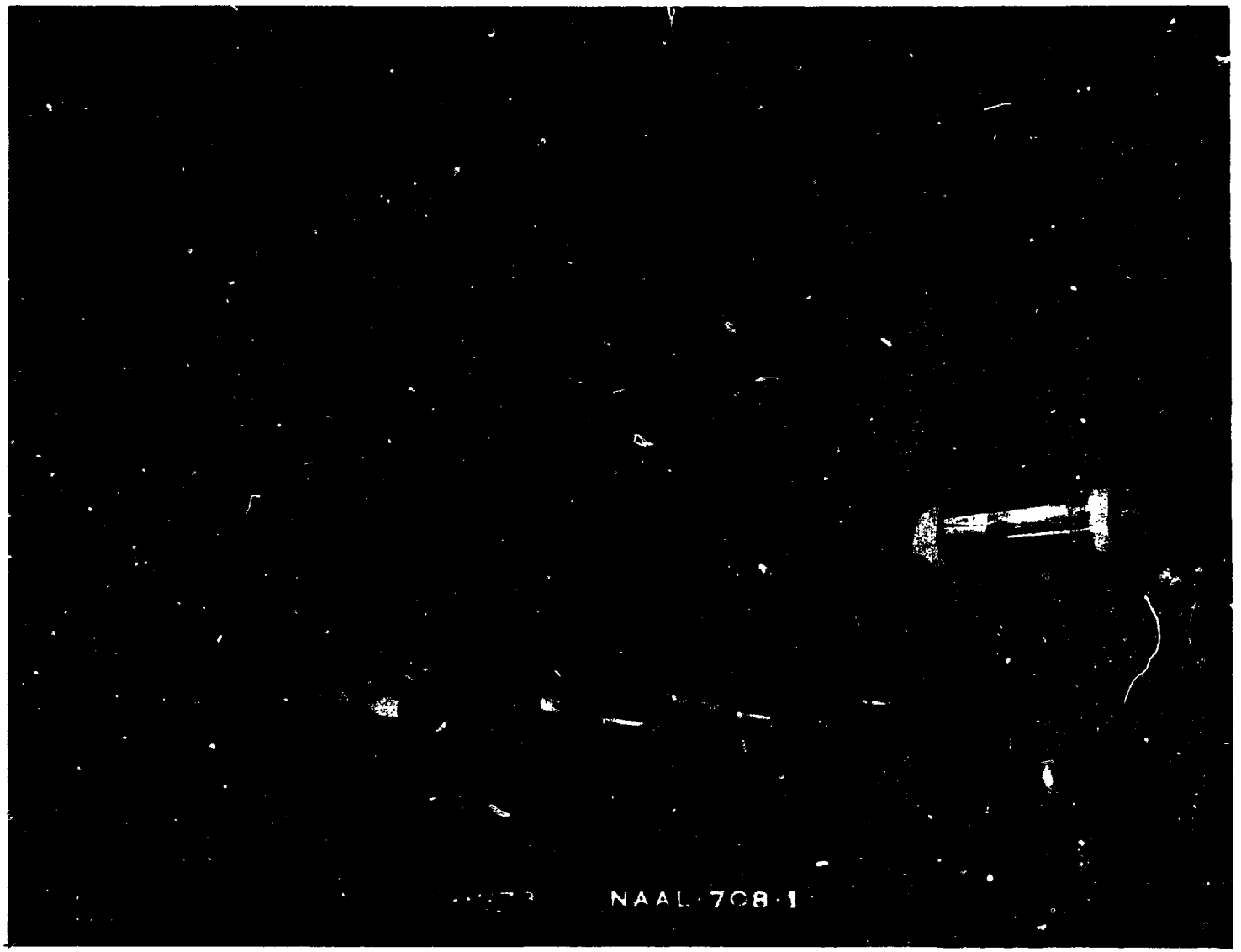
a. Front view NAAL installation ABPS off $B_{16}C_5D_7F_1W_{87}E_{18}V_3R_3$

Figure 3. - Model Photographs.



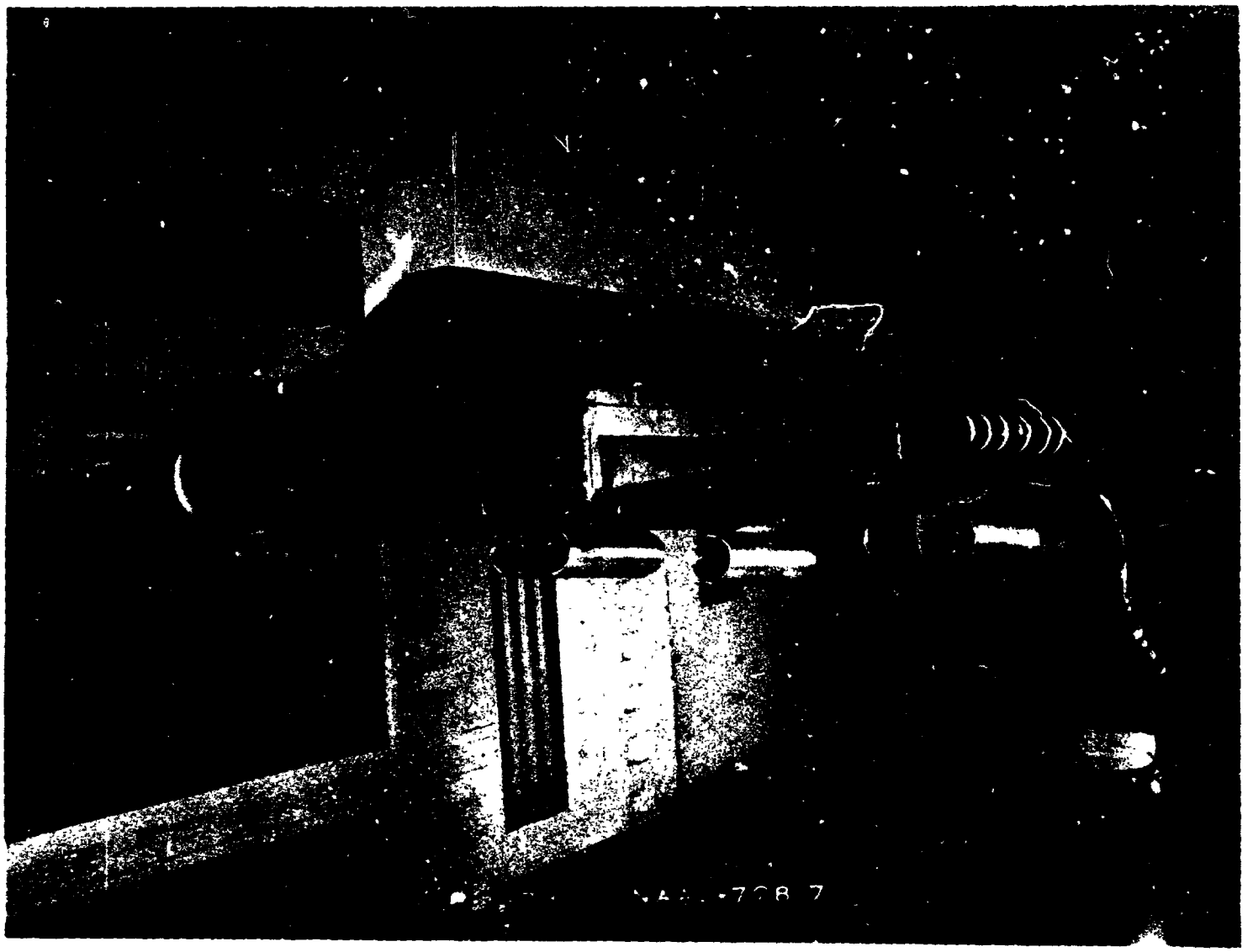
b. Front view NAAL installation single nacelles $B_{16}C_5D_7F_1J_{17}W_{87}E_{18}V_3R_3$

Figure 3. - Continued.



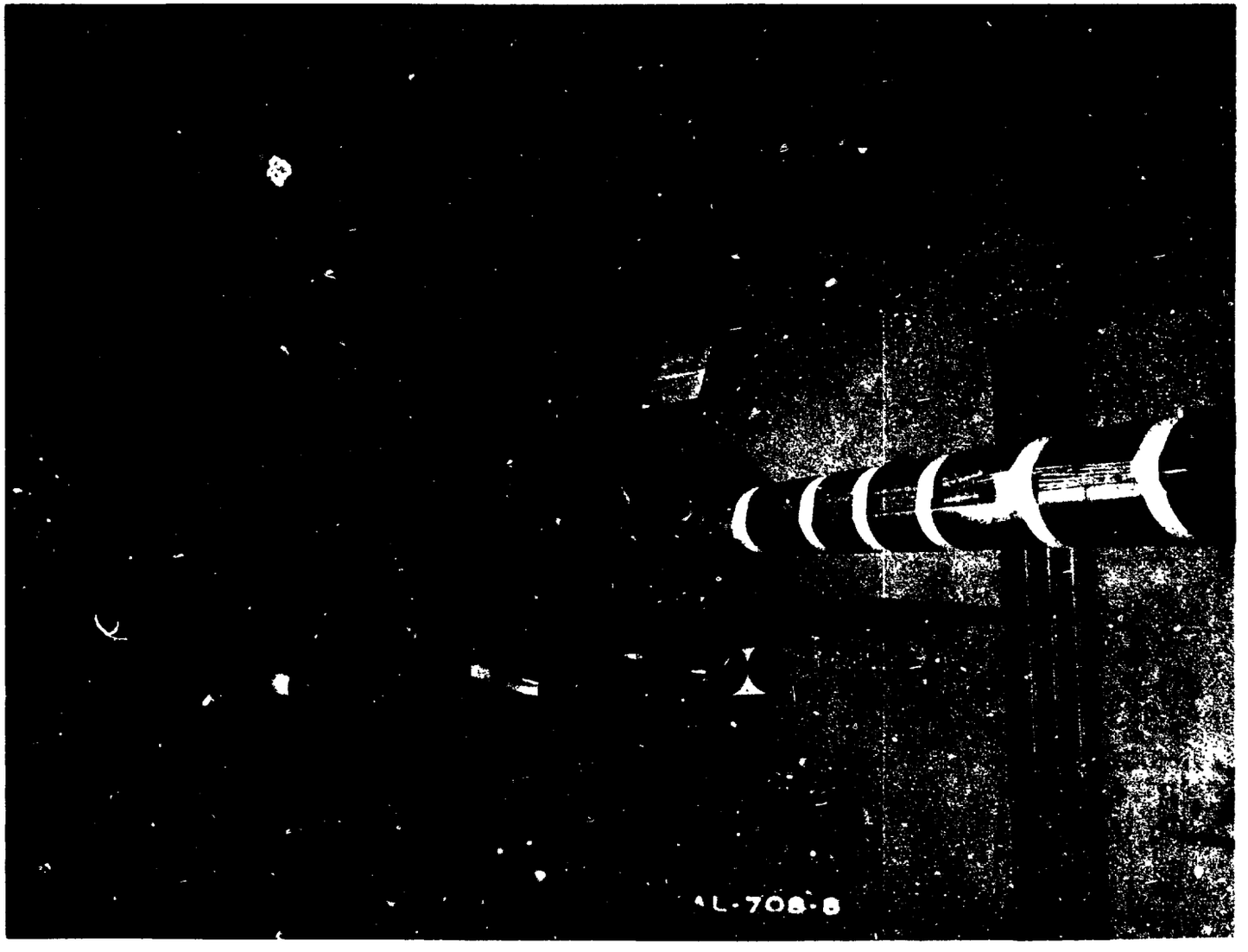
c. Rear view NAAL installation single nacelles $B_{16}C_5D_7F_1J_{17}W_{87}E_{18}V_3R_3$

Figure 3. - Continued



d. Front view NAAL installation podded nacelles $B_{16}C_5D_7F_1J_{14}W_{87}E_{18}V_3R_3$

Figure 3. - Continued.



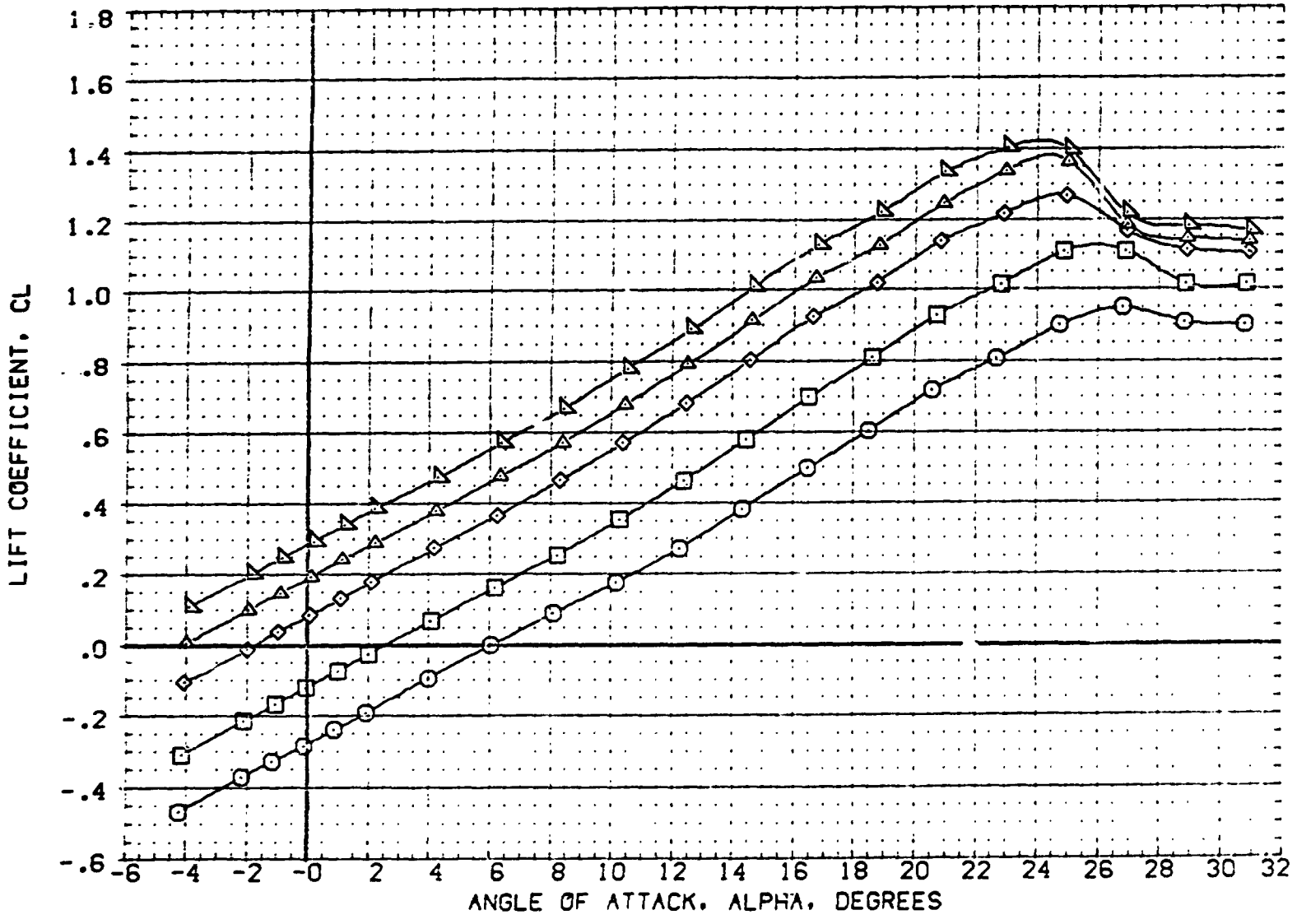
e. Rear view NAAL installation podded nacelles $B_{16}C_5D_7F_1J_{14}W_{87}E_{18}V_3R_3$

Figure 3. - Concluded

DATA FIGURES

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	AILRON
(ADS009)		CA71A B16C5 D7 F1 V87E18V3R3X9	.000	-20.000	.000
(ADS006)		CA71A B16C5 D7 F1 V87E18V3R3X9	.000	-10.000	.000
(ADS001)		CA71A B16C5 D7 F1 V87E18V3R3X9	.000	.000	.000
(ADS004)		CA71A B16C5 D7 F1 V87E18V3R3X9	.000	5.000	.000
(ADS008)		CA71A B16C5 D7 F1 V87E18V3R3X9	.000	10.000	.000

REFERENCE INFORMATION		
SREF	4.4122	SQ.FT.
LREF	19.2298	INCHES
BREF	37.9349	INCHES
XMRP	43.5874	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE



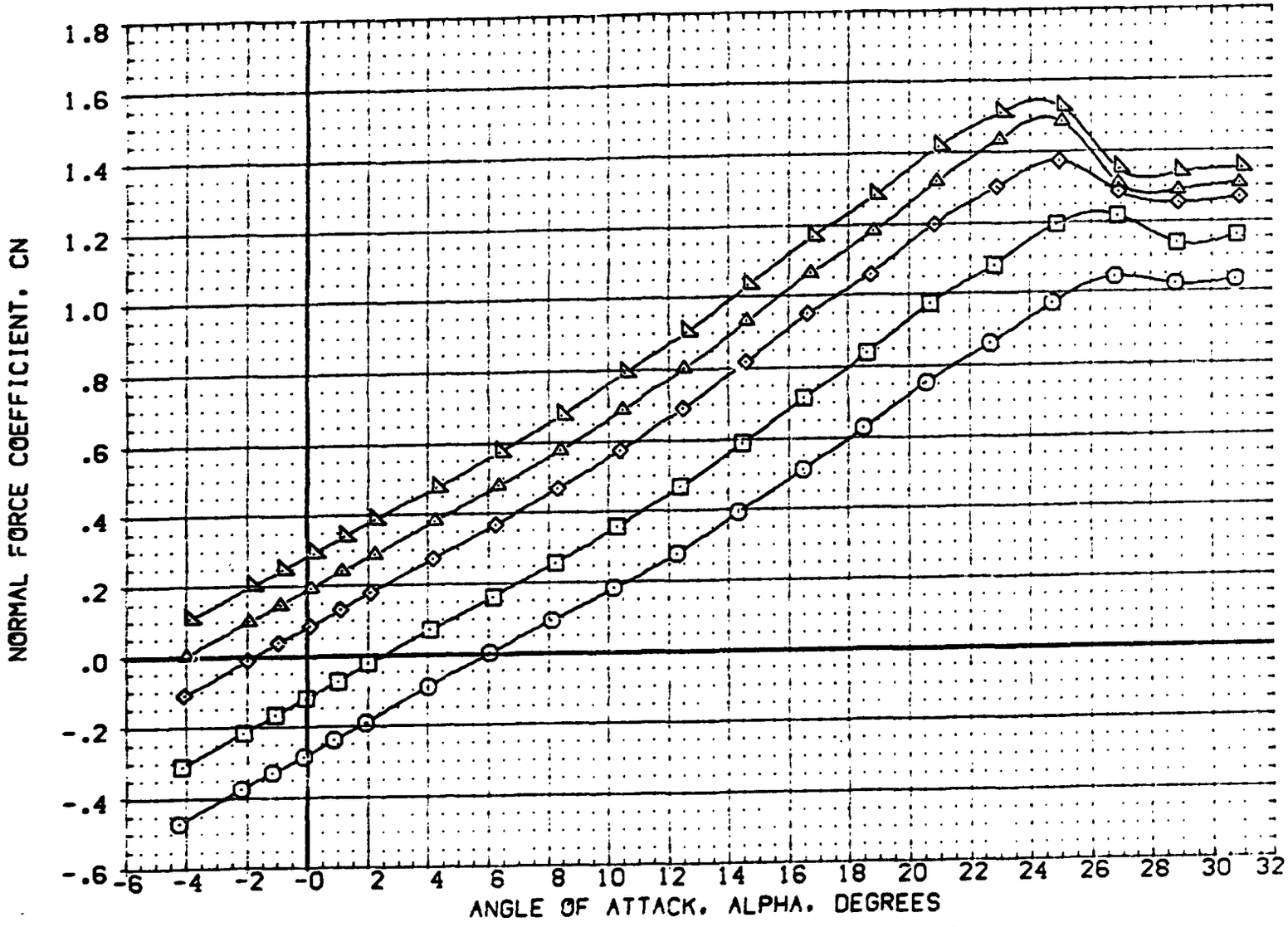
ELEVON EFFECTIVENESS -89B FERRY CONFIGURATION - ABPS OFF

(A)MACH = 0.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	AILRON
(ADS009)	□	CA71A B16C5 D7 F1 W87E18V3R3X9	.000	-20.000	.000
(ADS006)	○	CA71A B16C5 D7 F1 W87E18V3R3X9	.000	-10.000	.000
(ADS001)	◇	CA71A B16C5 D7 F1 W87E18V3R3X9	.000	.000	.000
(ADS004)	△	CA71A B16C5 D7 F1 W87E18V3R3X9	.000	5.000	.000
(ADS008)	◁	CA71A B16C5 D7 F1 W87E18V3R3X9	.000	10.000	.000

REFERENCE INFORMATION

SREF	4.4122	SQ.FT.
CREF	9.2299	INCHES
BREF	37.9349	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE



ELEVON EFFECTIVENESS -89B FERRY CONFIGURATION - ABPS OFF

(A)MACH = 0.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	AILRON
(ADS009)	□	0A71A B16C5 D7 F1 V87E18V3R3X9	.000	-20.000	.000
(ADS006)	◇	0A71A B16C5 D7 F1 V87E18V3R3X9	.000	-10.000	.000
(ADS001)	◇	0A71A B16C5 D7 F1 V87E18V3R3X9	.000	.000	.000
(ADS004)	△	0A71A B16C5 D7 F1 V87E18V3R3X9	.000	5.000	.000
(ADS008)	△	0A71A B16C5 D7 F1 V87E18V3R3X9	.000	10.000	.000

REFERENCE INFORMATION		
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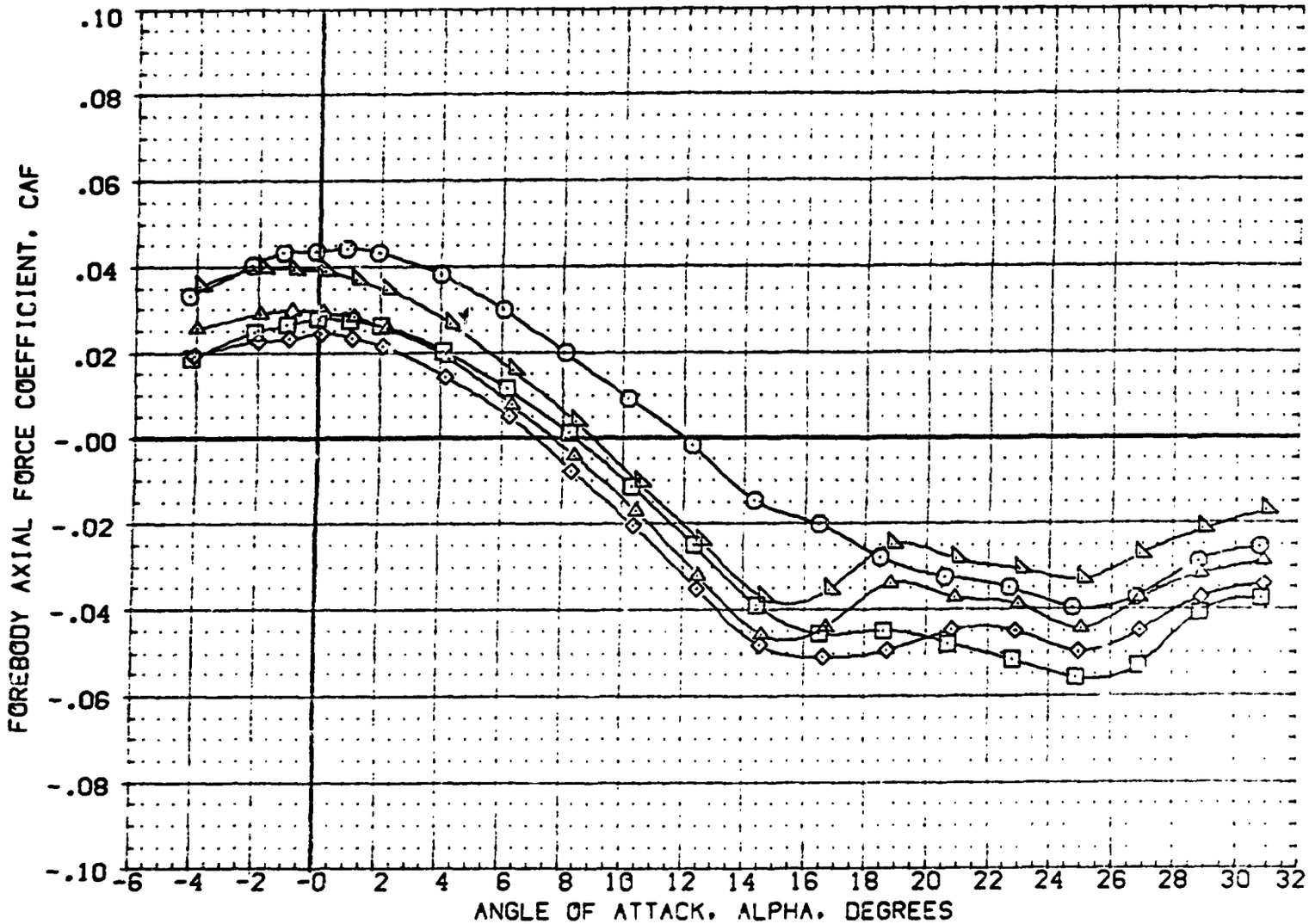

ELEVON EFFECTIVENESS -89B FERRY CONFIGURATION - ABPS OFF

(A)MACH = 0.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(ADS009)	□	0A71A B16C5 D7 F1 W87E18V3R3X9
(ADS006)	○	0A71A B16C5 D7 F1 W87E18V3R3X9
(ADS001)	◇	0A71A B16C5 D7 F1 W87E18V3R3X9
(ADS004)	△	0A71A B16C5 D7 F1 W87E18V3R3X9
(ADS008)	▽	0A71A B16C5 D7 F1 W87E18V3R3X9

BETA	ELEVON	AILRON
.000	-20.000	.000
.000	-10.000	.000
.000	.000	.000
.000	5.000	.000
.000	10.000	.000

REFERENCE INFORMATION

SREF	4.4122	SQ.FT.
BLREF	19.2299	INCHES
CREF	37.9349	INCHES
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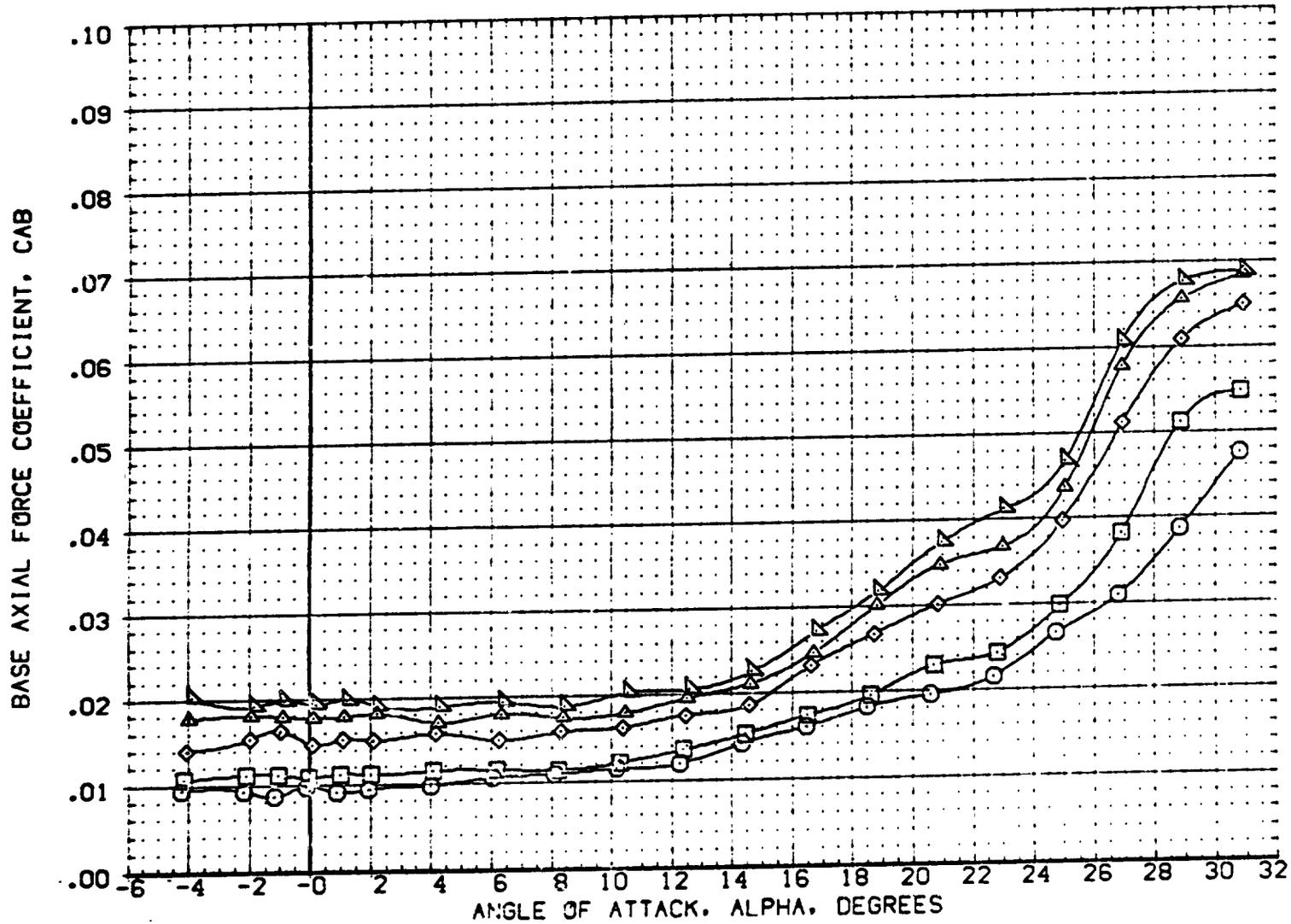
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE



ELEVON EFFECTIVENESS -89B FERRY CONFIGURATION - ABPS OFF

(A)MACH = 0.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(ADS009)	○	OA71A B16C5 D7 F1 V87E18V3R3X9
(ADS006)	□	OA71A B16C5 D7 F1 V87E18V3R3X9
(ADS003)	◇	OA71A B16C5 D7 F1 V87E18V3R3X9
(ADS004)	△	OA71A B16C5 D7 F1 V87E18V3R3X9
(ADS008)	◁	OA71A B16C5 D7 F1 V87E18V3R3X9

BETA	ELEVON	AILRON
.000	-20.000	.000
.000	-10.000	.000
.000	.000	.000
.000	5.000	.000
.000	10.000	.000

REFERENCE INFORMATION

SREF	4.4122	SQ.FT.
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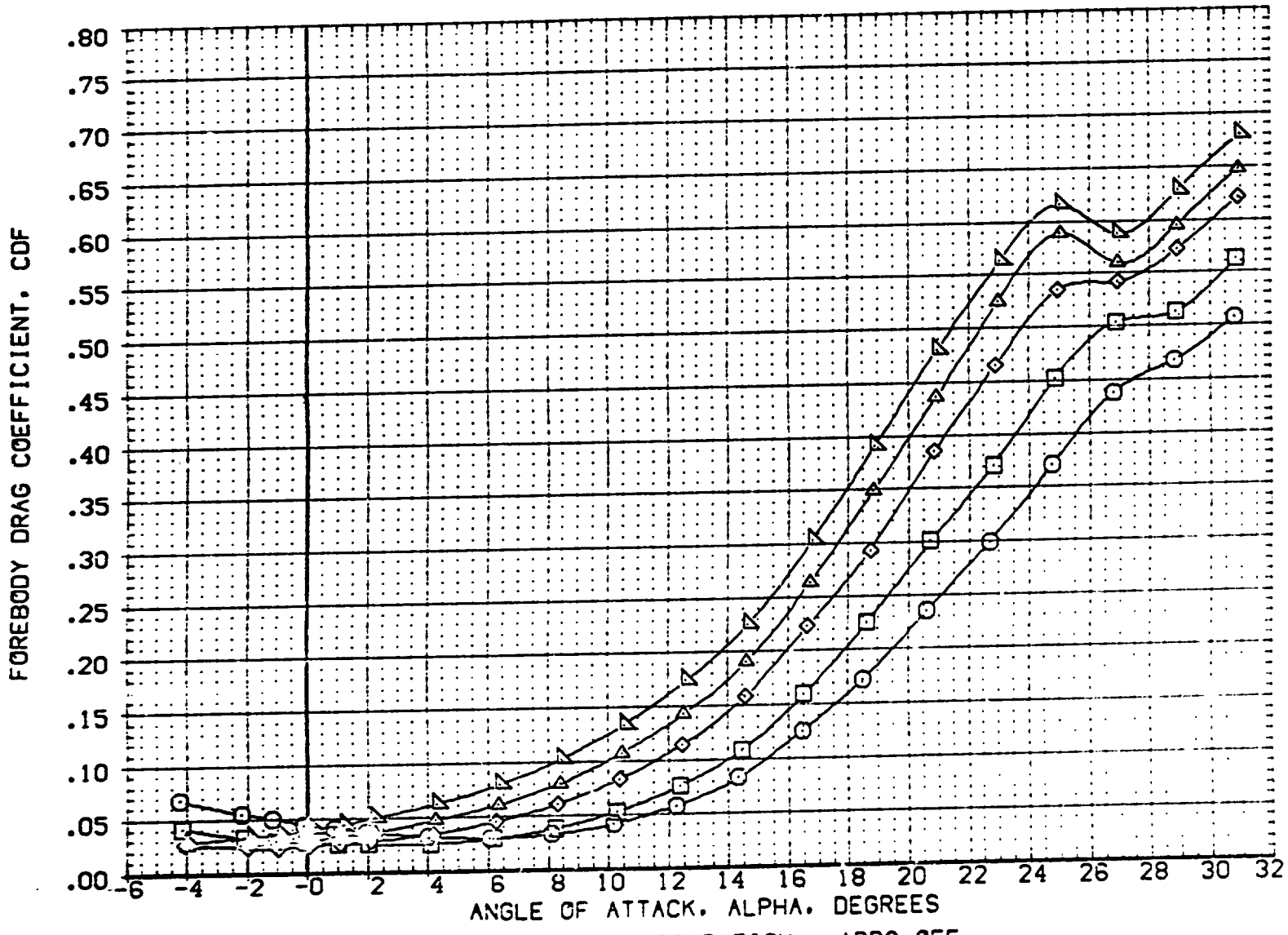

ELEVON EFFECTIVENESS -89B FERRY CONFIGURATION - ABPS OFF

(A)MACH = 0.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(ADS009)	○	CA71A B16C5 D7 F1 W87E18V3R3X9
(ADS006)	□	CA71A B16C5 D7 F1 W87E18V3R3X9
(ADS021)	◇	CA71A B16C5 D7 F1 W87E18V3R3X9
(ADS024)	△	CA71A B16C5 D7 F1 W87E18V3R3X9
(ADS028)	▷	CA71A B16C5 D7 F1 W87E18V3R3X9

BETA	ELEVON	AILRON
.000	-20.000	.000
.000	-10.000	.000
.000	.000	.000
.000	5.000	.000
.000	10.000	.000

REFERENCE INFORMATION

SREF	4.4122	SQ.FT.
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YMRP	.0000	INCHES
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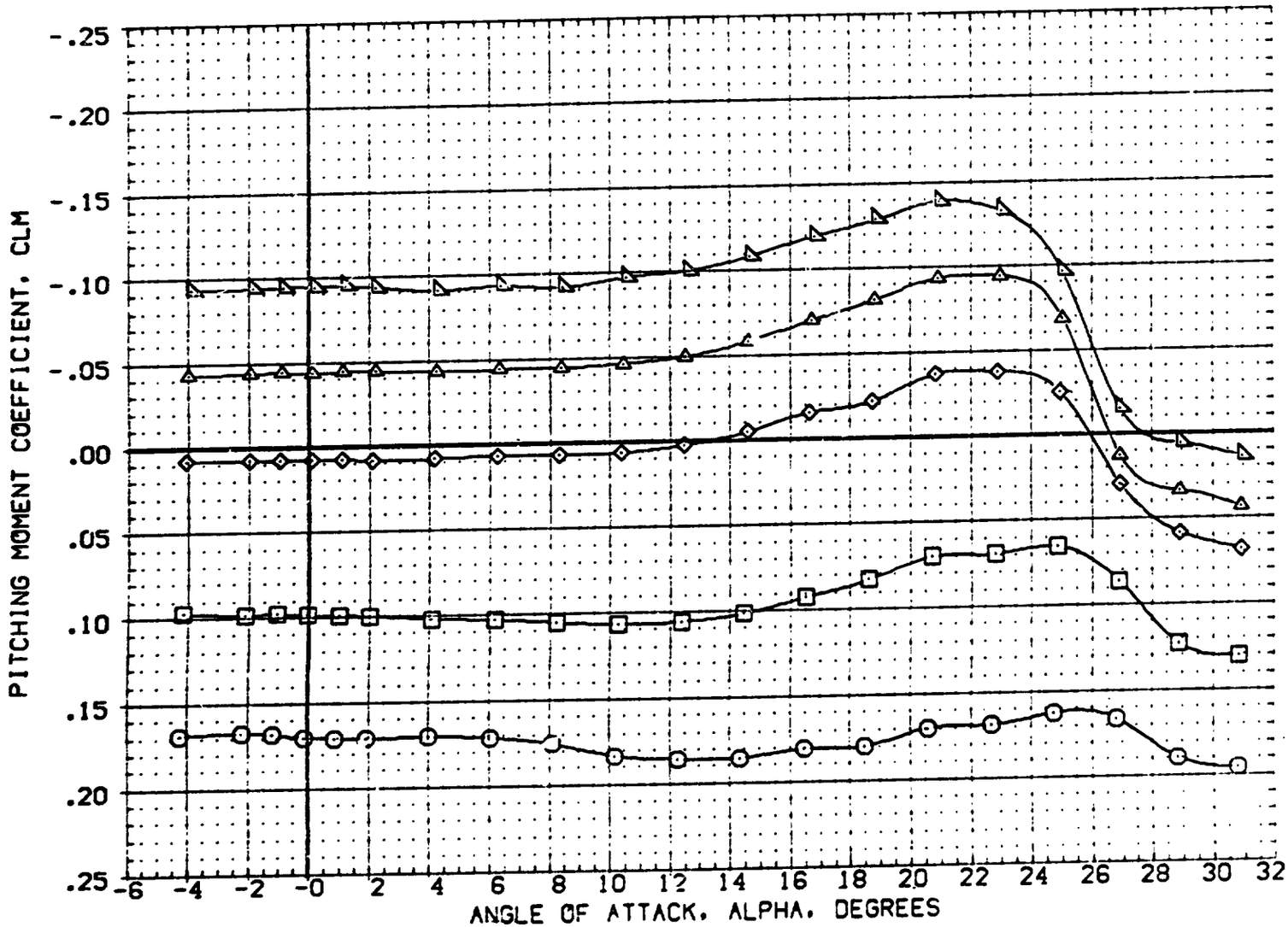

ELEVON EFFECTIVENESS -89B FERRY CONFIGURATION - ABPS OFF

(A)MACH = 0.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(ADS009)		CA71A B16C5 D7 F1 V87E18V3R3XS
(ADS006)		CA71A B16C5 D7 F1 V87E18V3R3X9
(ADS011)		CA71A B16C5 D7 F1 V87E18V3R3X9
(ADS004)		CA71A B16C5 D7 F1 V87E18V3R3X9
(ADS008)		CA71A B16C5 D7 F1 V87E18V3R3X9

BETA	ELEVON	AILRON
.000	-20.000	.000
.000	-10.000	.000
.000	.000	.000
.000	5.000	.000
.000	10.000	.000

REFERENCE INFORMATION

SREF	4.4122	SQ.FT.
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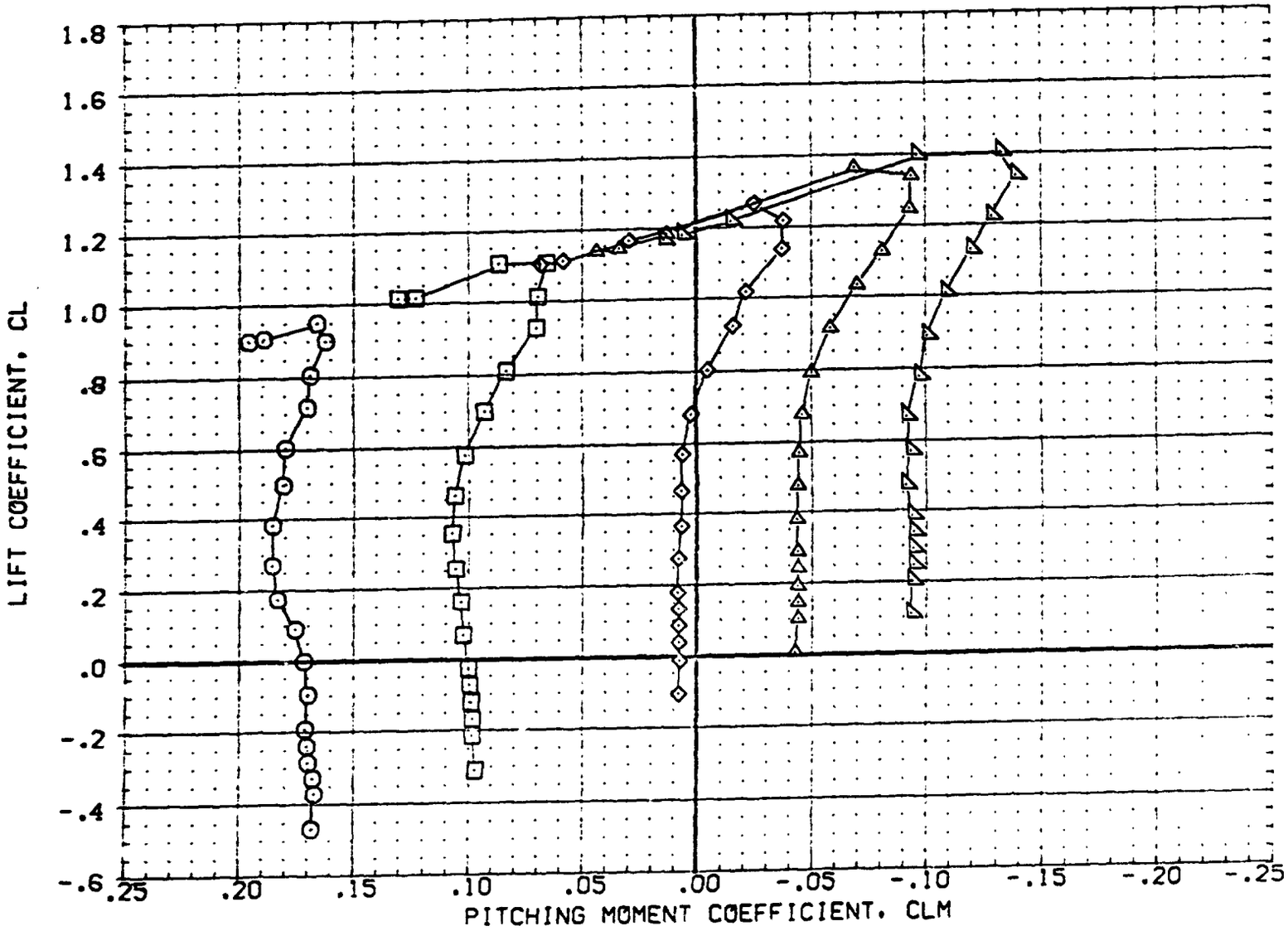

ELEVON EFFECTIVENESS -89B FERRY CONFIGURATION - ABPS OFF

(A)MACH = 0.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(ADS009)	○	0A71A B16C5 D7 F1 W87E18V3R3X9
(ADS006)	□	0A71A B16C5 D7 F1 W87E18V3R3X9
(ADS001)	◇	0A71A B16C5 D7 F1 W87E18V3R3X9
(ADS004)	△	0A71A B16C5 D7 F1 W87E18V3R3X9
(ADS008)	▽	0A71A B16C5 D7 F1 W87E18V3R3X9

BETA	ELEVON	AILRON
.000	-20.000	.000
.000	-10.000	.000
.000	.000	.000
.000	5.000	.000
.000	10.000	.000

REFERENCE INFORMATION

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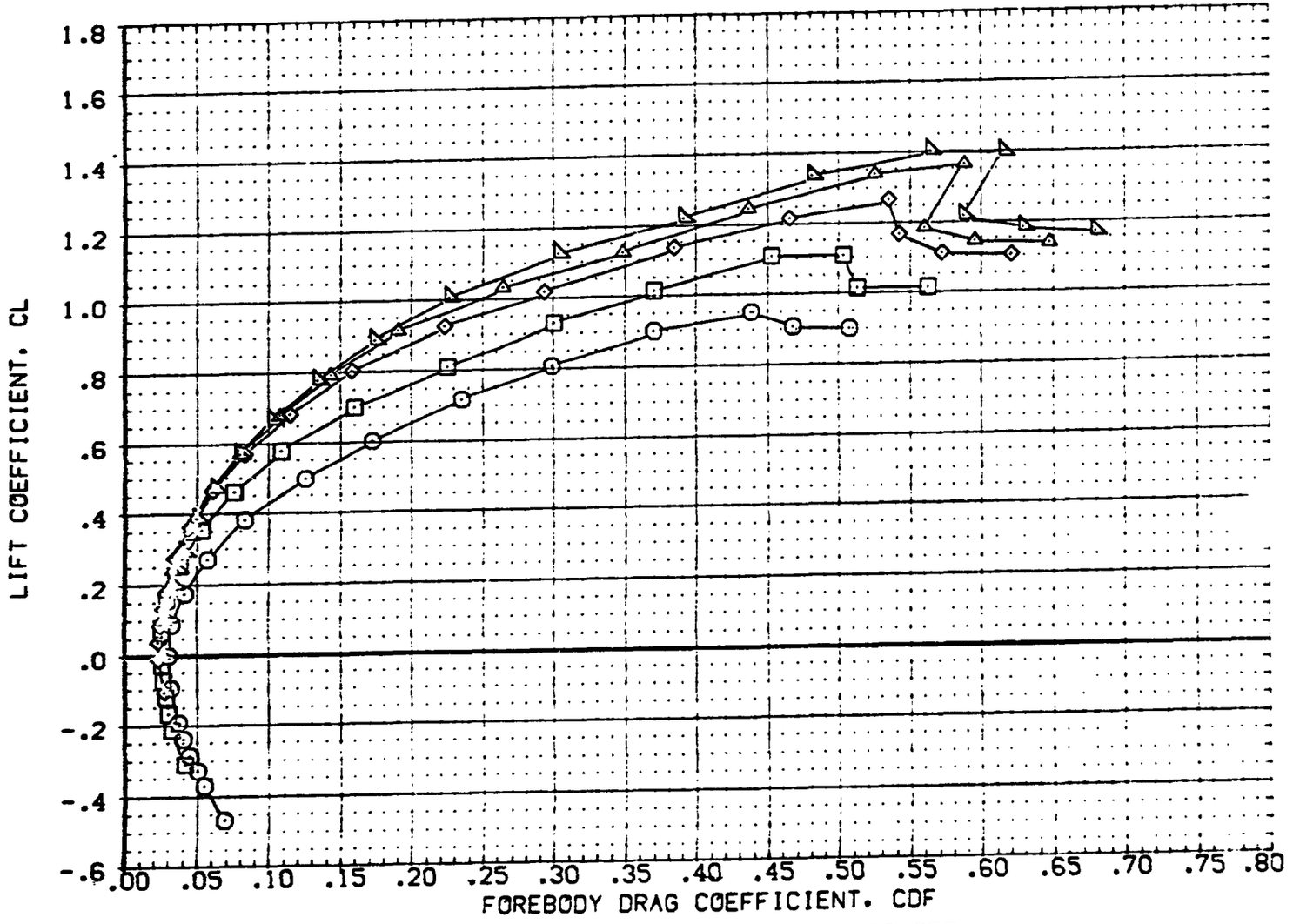
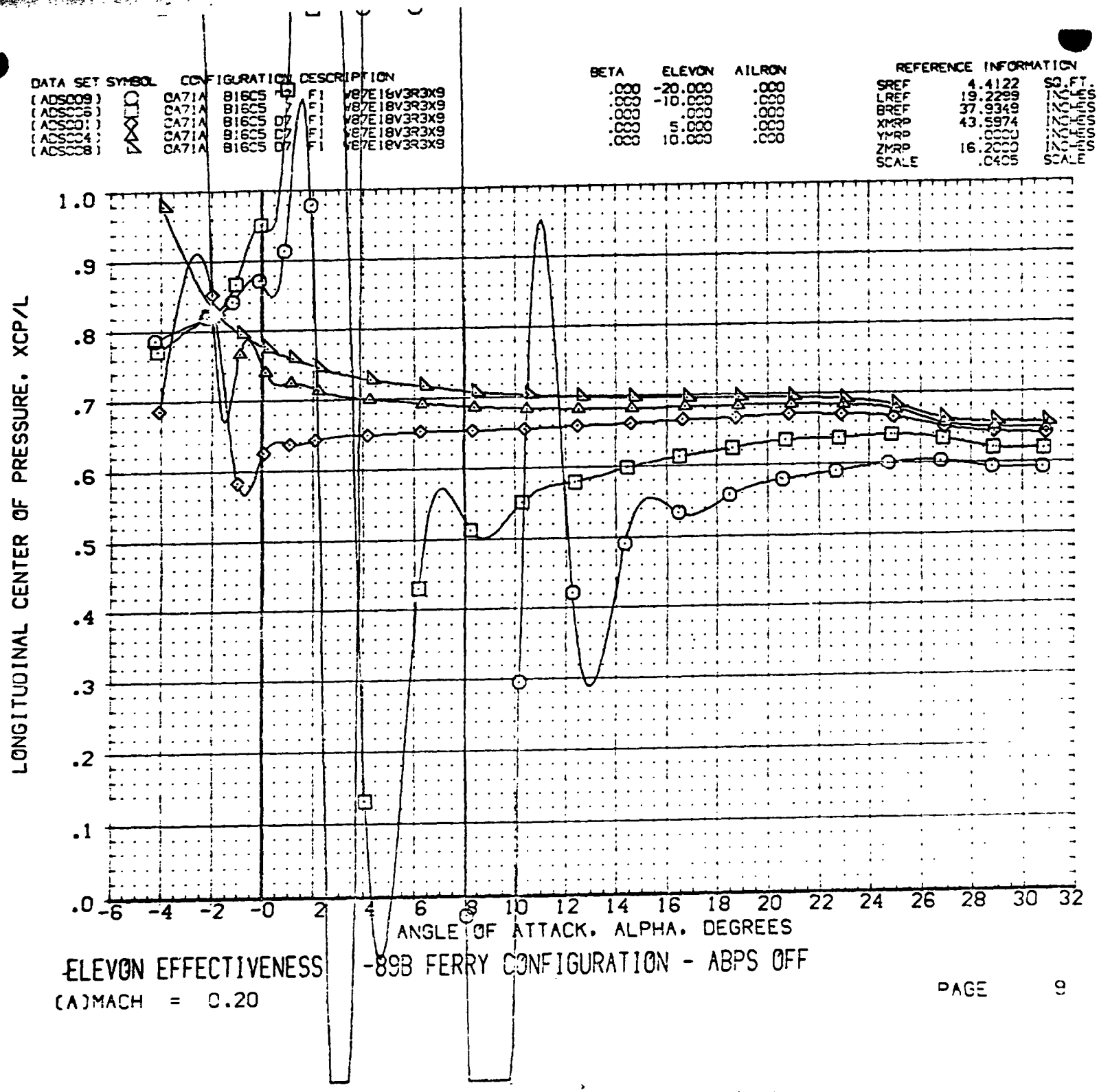


ELEVON EFFECTIVENESS -89B FERRY CONFIGURATION - ABPS OFF

(A)MACH = 0.20



ELEVON EFFECTIVENESS -89B FERRY CONFIGURATION - ABPS OFF

(A)MACH = 0.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	AILRON
(ADS009)		CA71A B16C5 D7 F1 W87E18V3R3X9	.000	-20.000	.000
(ADS006)		CA71A B16C5 D7 F1 W87E18V3R3X9	.000	-10.000	.000
(ADS001)		CA71A B16C5 D7 F1 W87E18V3R3X9	.000	.000	.000
(ADS004)		CA71A B16C5 D7 F1 W87E18V3R3X9	.000	5.000	.000
(ADS008)		CA71A B16C5 D7 F1 W87E18V3R3X9	.000	10.000	.000

REFERENCE INFORMATION

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XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
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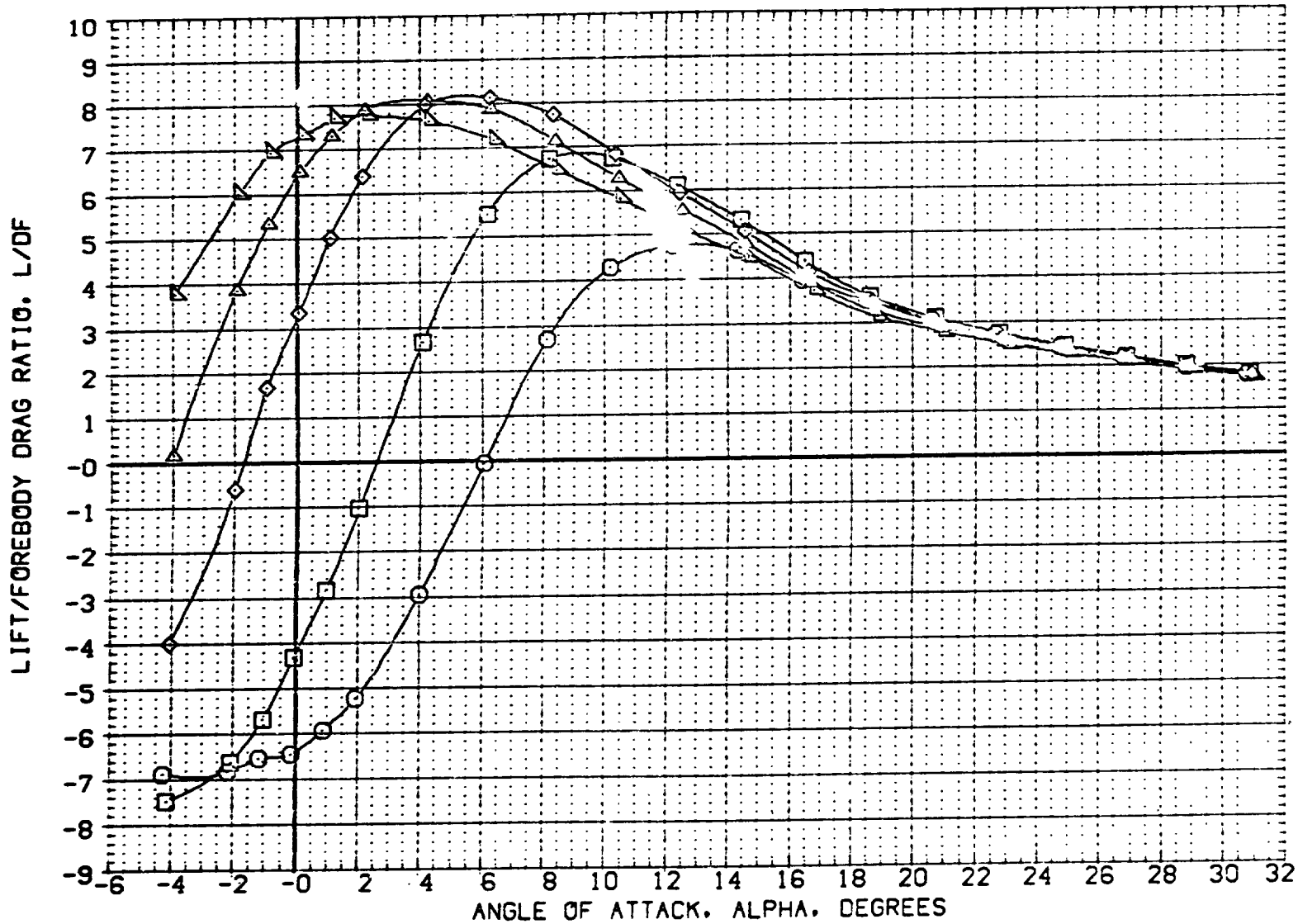

ELEVON EFFECTIVENESS -89B FERRY CONFIGURATION - ABPS OFF

(A)MACH = 0.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	AILRON	NACX/L
(ADS012)	○	CA71A B16C5 D7 F1J14V87 E18V3R3X10	.000	-20.000	.000	.000
(ADS015)	□	CA71A B16C5 D7 F1J14V87 E18V3R3X10	.000	-10.000	.000	.000
(ADS022)	◇	CA71A B16C5 D7 F1J14V87 E18V3R3X10	.000	.000	.000	.000
(ADS017)	△	CA71A B16C5 D7 F1J14V87 E18V3R3X10	.000	5.000	.000	.000
(ADS013)	▽	CA71A B16C5 D7 F1J14V87 E18V3R3X10	.000	10.000	.000	.000

REFERENCE INFORMATION		
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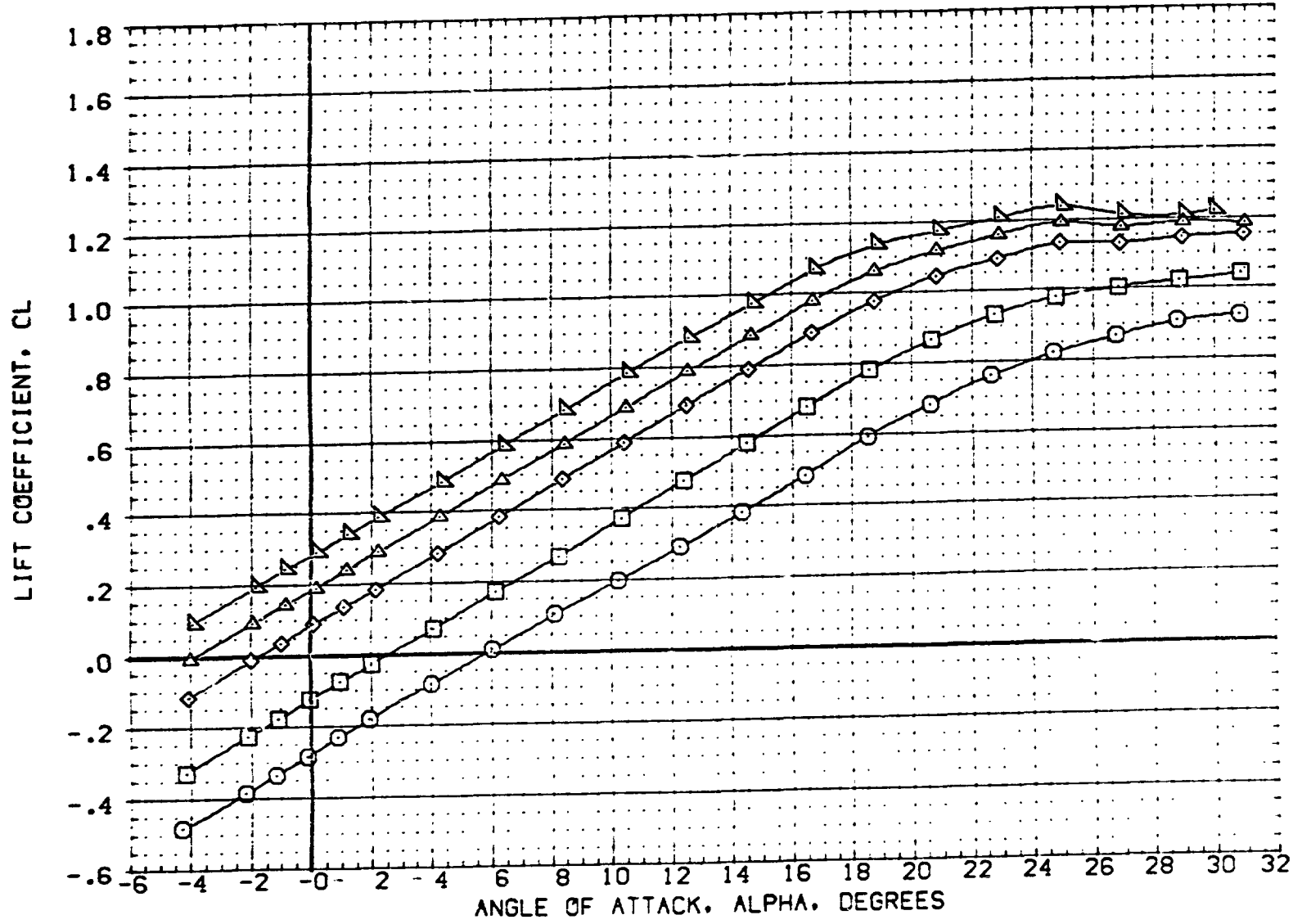
CREF	19.2289	INCHES
BREF	37.9349	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

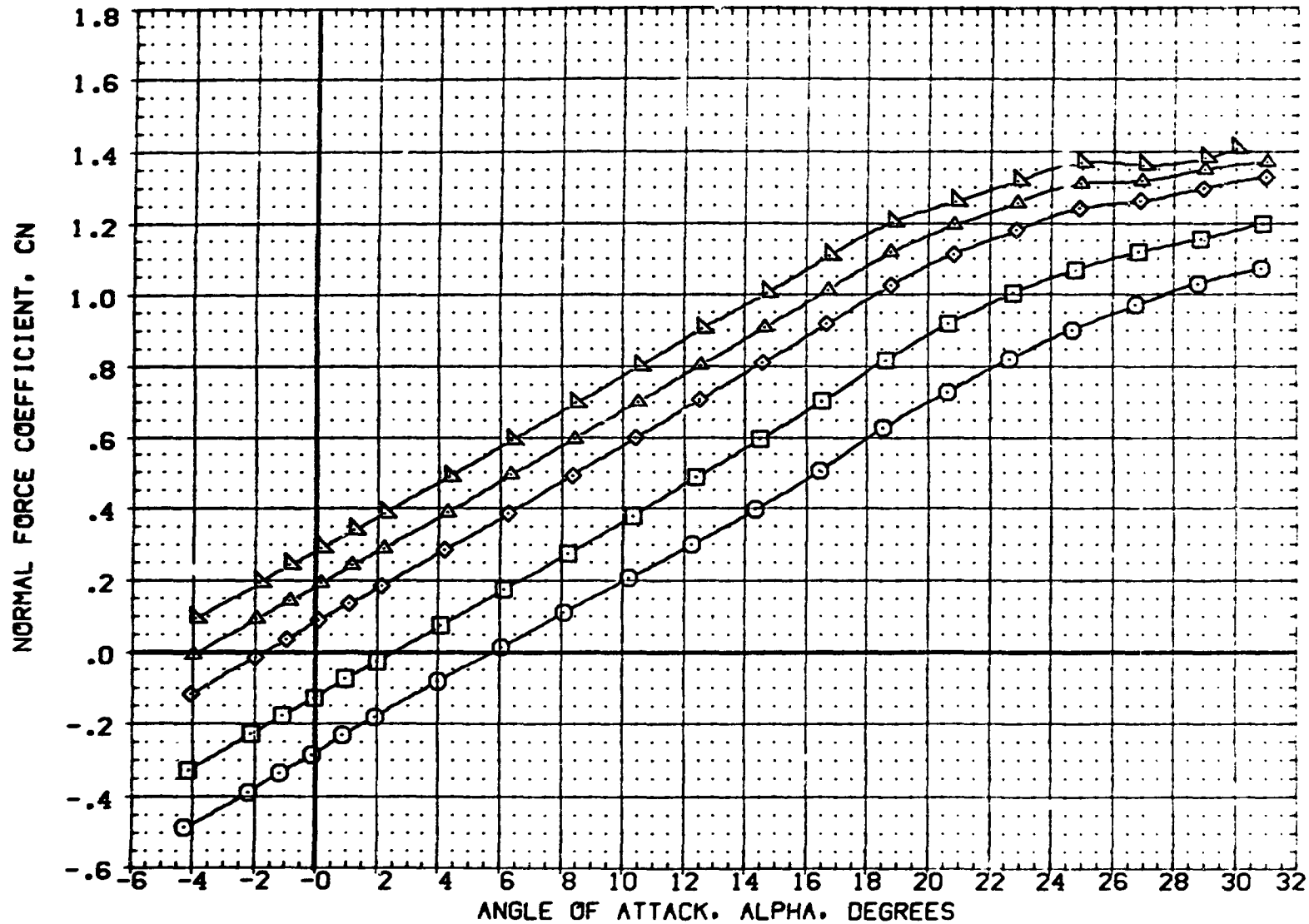


ELEVON EFFECTIVENESS -89B FERRY CONFIGURATION - J14 ABPS

(A)MACH = 0.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	AILRON	NACX/L
(ADS012)	○	0A71A B16C5 D7 F1J14V87 E18V3R3X10	.000	-20.000	.000	.000
(ADS015)	□	0A71A B16C5 D7 F1J14V87 E18V3R3X10	.000	-10.000	.000	.000
(ADS022)	◇	0A71A B16C5 D7 F1J14V87 E18V3R3X10	.000	.000	.000	.000
(ADS017)	⋈	0A71A B16C5 D7 F1J14V87 E18V3R3X10	.000	5.000	.000	.000
(ADS013)	△	0A71A B16C5 D7 F1J14V87 E18V3R3X10	.000	10.000	.000	.000

REFERENCE INFORMATION		
SREF	4.4122	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9349	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE



ELEVON EFFECTIVENESS -89B FERRY CONFIGURATION - J14 ABPS

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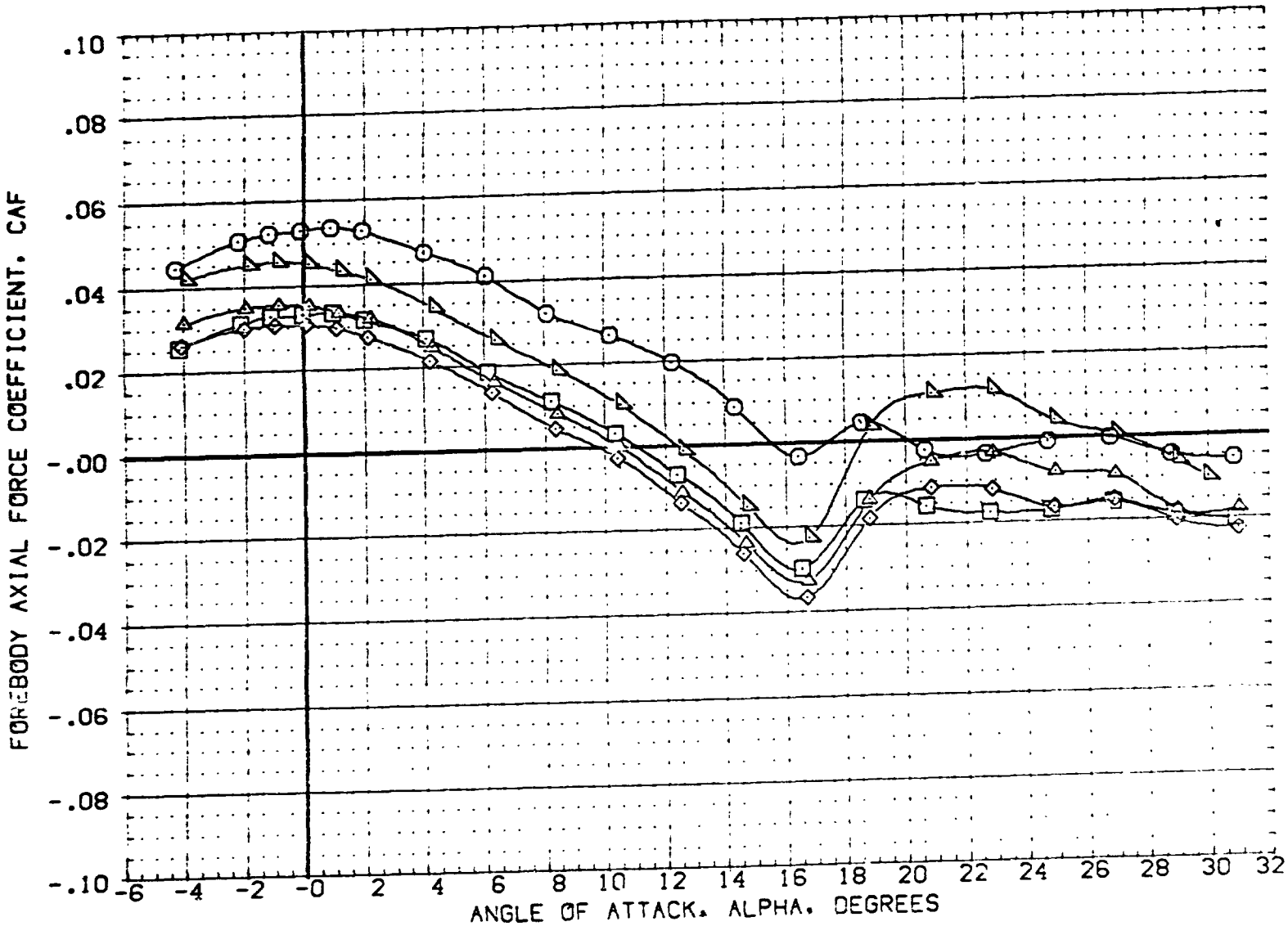
(ADSC15)		CA71A B16C5 D7 F1J14V87 E18V3R3X10
(ADSC22)		CA71A B16C5 D7 F1J14V87 E18V3R3X10
(ADSC17)		CA71A B16C5 D7 F1J14V87 E18V3R3X10
(ADSC13)		CA71A B16C5 D7 F1J14V87 E18V3R3X10

BETA	ELEVON	AILRON	NACX/L
.000	-20.000	.000	.000
.000	-10.000	.000	.000
.000	.000	.000	.000
.000	5.000	.000	.000
.000	10.000	.000	.000

REFERENCE INFORMATION

SREF	4.4122	SQ.FT.
CREF	19.2299	INCHES
BREF	37.9348	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

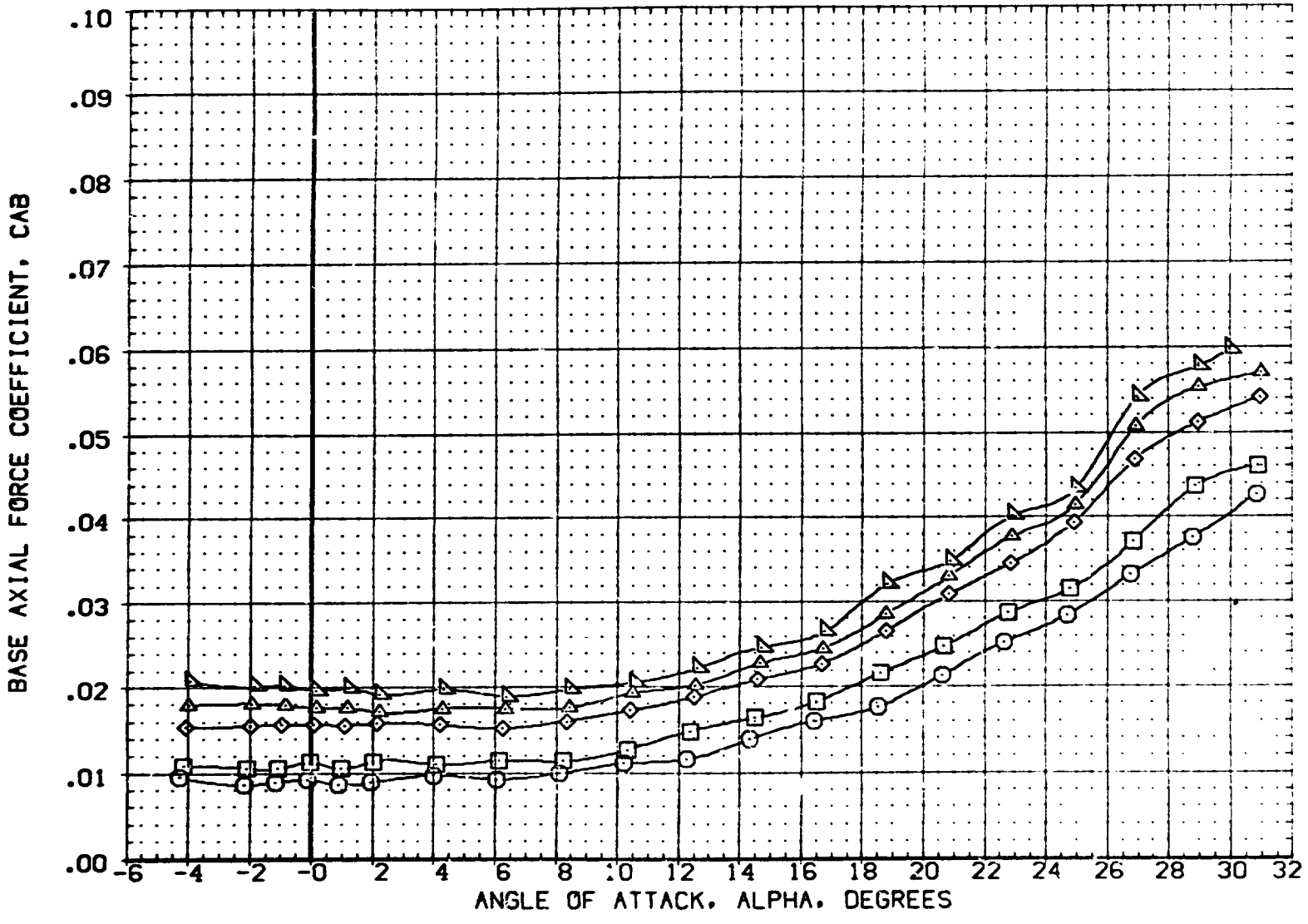


ELEVON EFFECTIVENESS -89B FERRY CONFIGURATION - J14 ABPS

(A)MACH = 0.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	AILRON	NACX/L
(ADS012)	○	0A71A B16C5 D7 F1J14V87 E18V3R3X10	.000	-20.000	.000	.000
(ADS015)	□	0A71A B16C5 D7 F1J14V87 E18V3R3X10	.000	-10.000	.000	.000
(ADS022)	◇	0A71A B16C5 D7 F1J14V87 E18V3R3X10	.000	.000	.000	.000
(ADS017)	⋈	0A71A B16C5 D7 F1J14V87 E18V3R3X10	.000	5.000	.000	.000
(ADS013)	△	0A71A B16C5 D7 F1J14V87 E18V3R3X10	.000	10.000	.000	.000

REFERENCE INFORMATION		
SREF	4.4122	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9349	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE



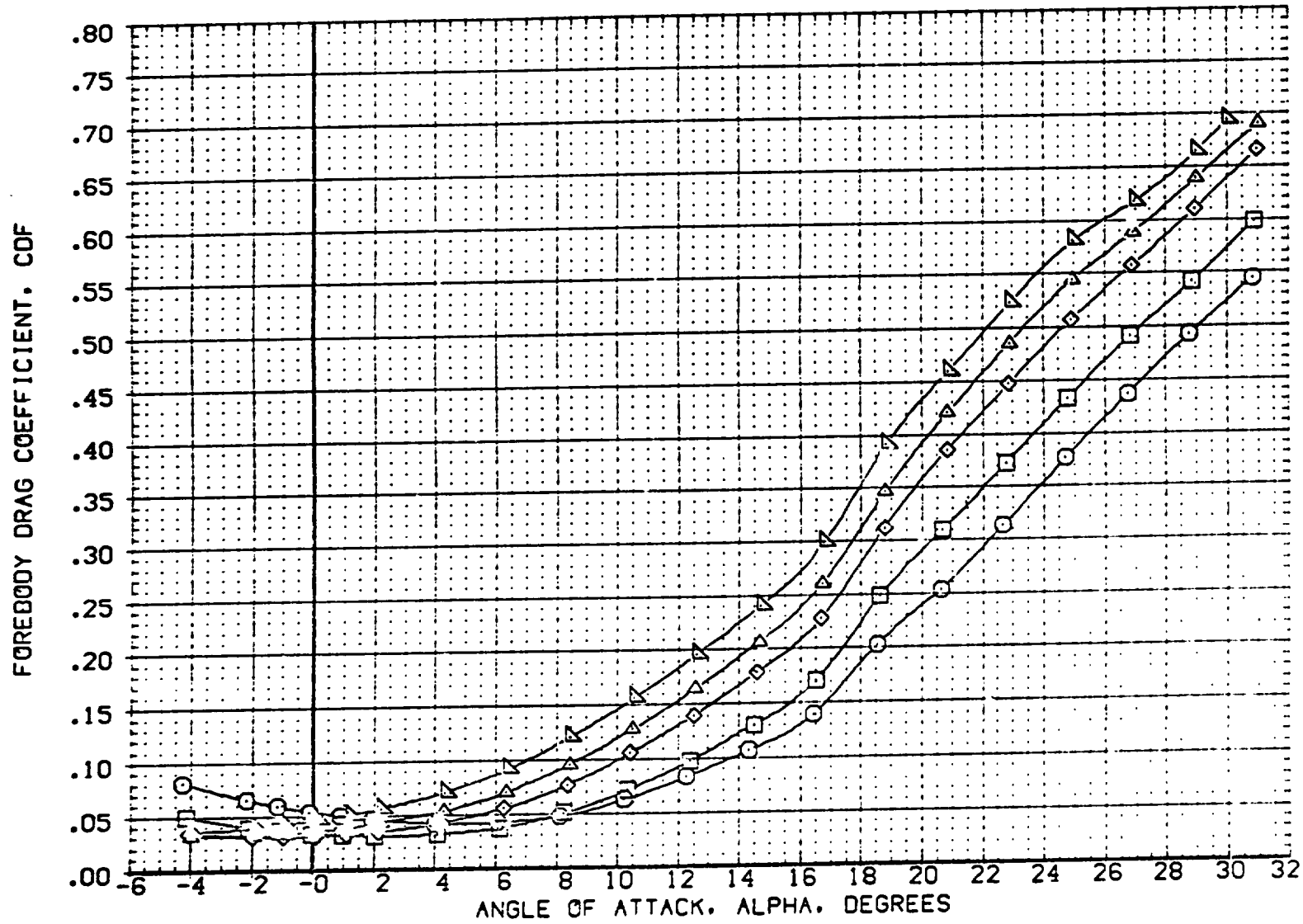
ELEVON EFFECTIVENESS -89B FERRY CONFIGURATION - J14 ABPS

(A)MACH = 0.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(ADS012)	□	0A71A B16C5 D7 F1J14V87 E18V3R3X10
(ADS015)	▽	0A71A B16C5 D7 F1J14V87 E18V3R3X10
(ADS022)	◇	0A71A B16C5 D7 F1J14V87 E18V3R3X10
(ADS017)	△	0A71A B16C5 D7 F1J14V87 E18V3R3X10
(ADS013)	◺	0A71A B16C5 D7 F1J14V87 E18V3R3X10

BETA	ELEVON	AILRON	NACX/L
.000	-20.000	.000	.000
.000	-10.000	.000	.000
.000	.000	.000	.000
.000	5.000	.000	.000
.000	10.000	.000	.000

REFERENCE INFORMATION		
SREF	4.4122	SQ.FT.
LREF	19.2259	INCHES
BREF	37.9349	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE



ELEVON EFFECTIVENESS -89B FERRY CONFIGURATION - J14 ABPS

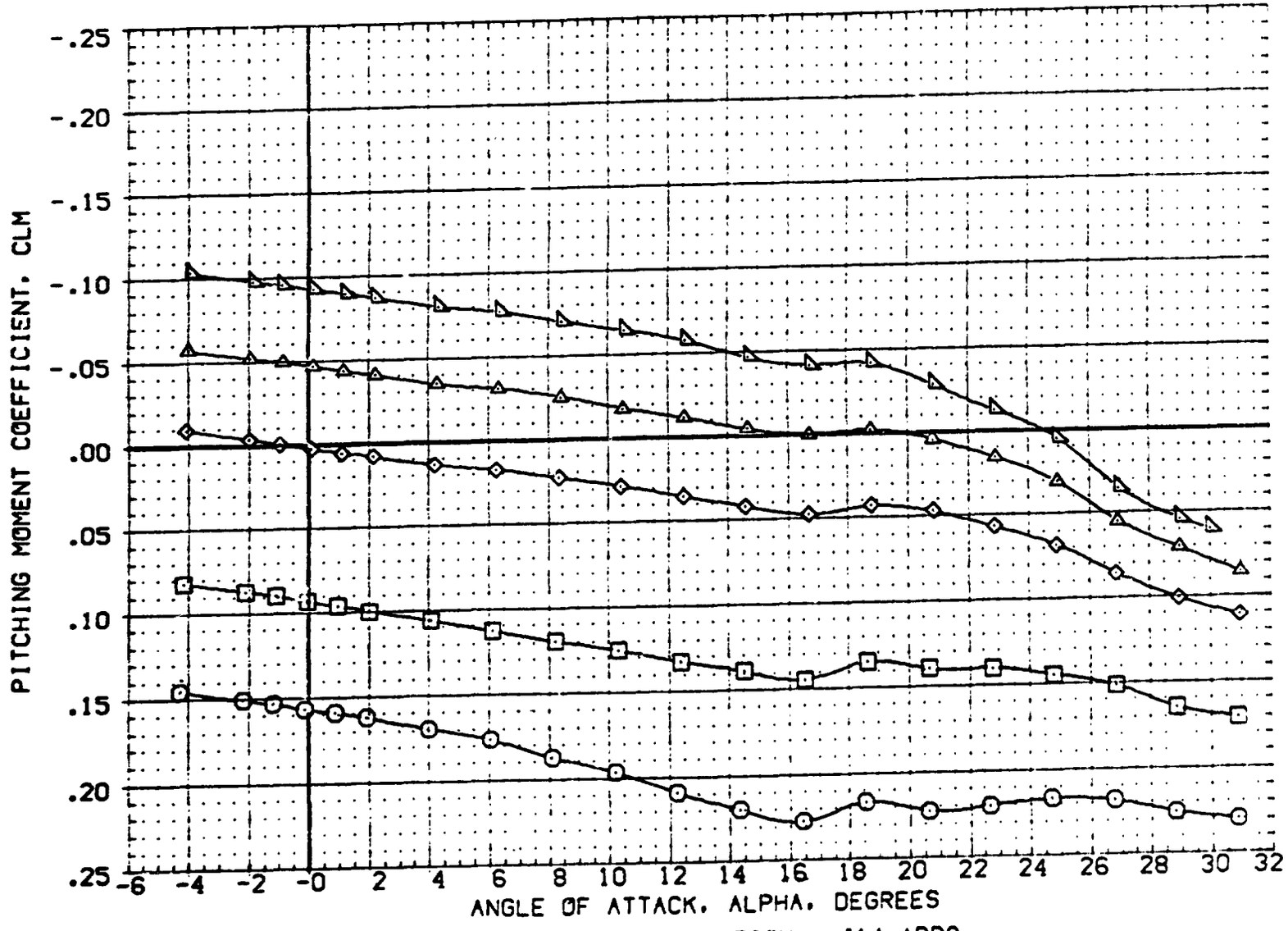
(A)MACH = 0.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(ADS012)	○	CA71A B16C5 D7 F1J14V87 E18V3R3X10
(ADS015)	□	CA71A B16C5 D7 F1J14V87 E18V3R3X10
(ADS022)	◇	CA71A B16C5 D7 F1J14V87 E18V3R3X10
(ADS017)	△	CA71A B16C5 D7 F1J14V87 E18V3R3X10
(ADS013)	▷	CA71A B16C5 D7 F1J14V87 E18V3R3X10

BETA	ELEVON	AILRON	NACX/L
.000	-20.000	.000	.000
.000	-10.000	.000	.000
.000	.000	.000	.000
.000	5.000	.000	.000
.000	10.000	.000	.000

REFERENCE INFORMATION

SREF	4.4122	SQ.FT.
CREF	19.2299	INCHES
BREF	37.6349	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

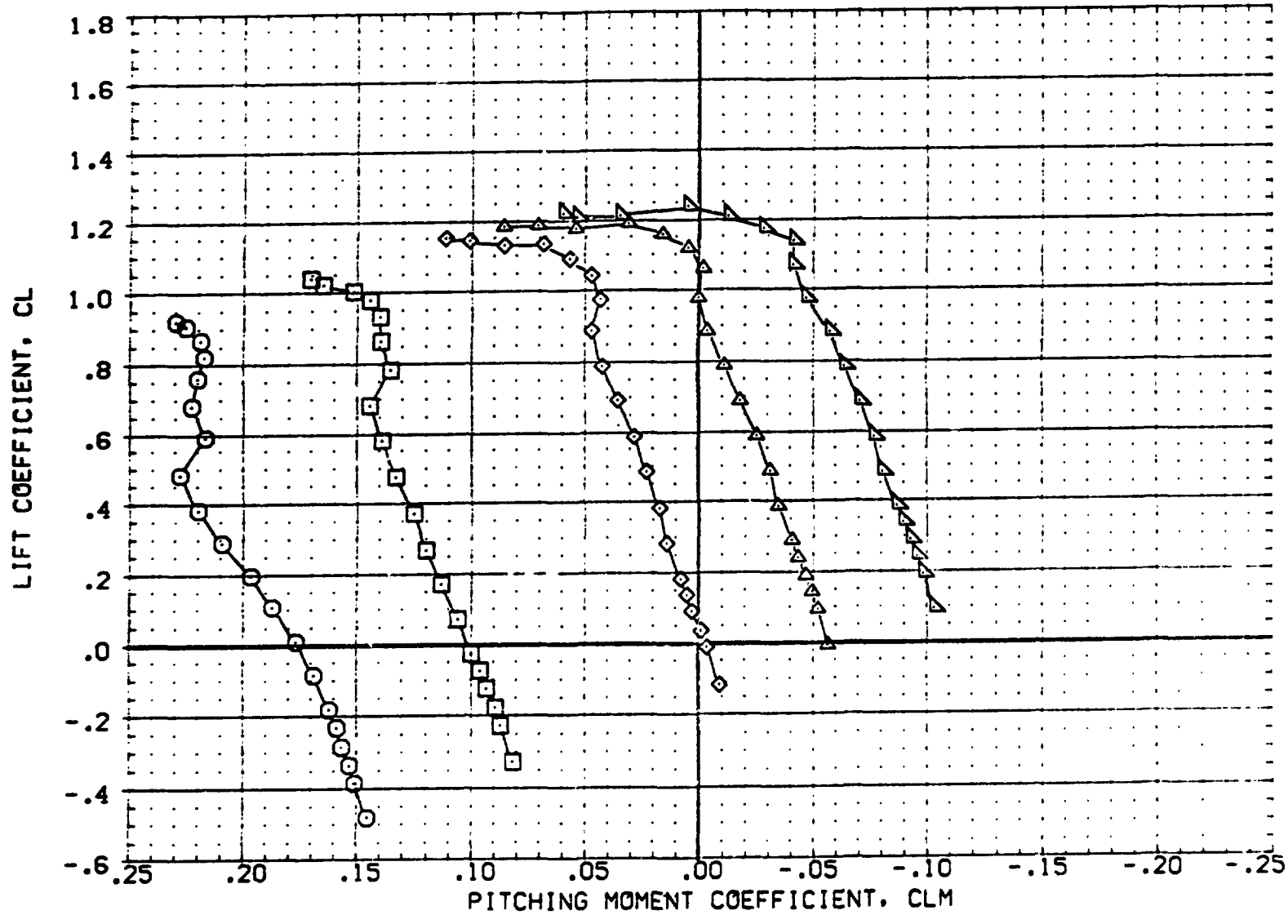


ELEVON EFFECTIVENESS -89B FERRY CONFIGURATION - J14 ABPS

(A)MACH = 0.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	AILRON	NACX/L
(ADS012)	□	CA71A B16C5 D7 F1J14V87 E18V3R3X10	.000	-20.000	.000	.000
(ADS015)	○	CA71A B16C5 D7 F1J14V87 E18V3R3X10	.000	-10.000	.000	.000
(ADS022)	◇	CA71A B16C5 D7 F1J14V87 E18V3R3X10	.000	.000	.000	.000
(ADS017)	△	CA71A B16C5 D7 F1J14V87 E18V3R3X10	.000	5.000	.000	.000
(ADS013)	▽	CA71A B16C5 D7 F1J14V87 E18V3R3X10	.000	10.000	.000	.000

REFERENCE INFORMATION		
SREF	4.4122	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9349	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE



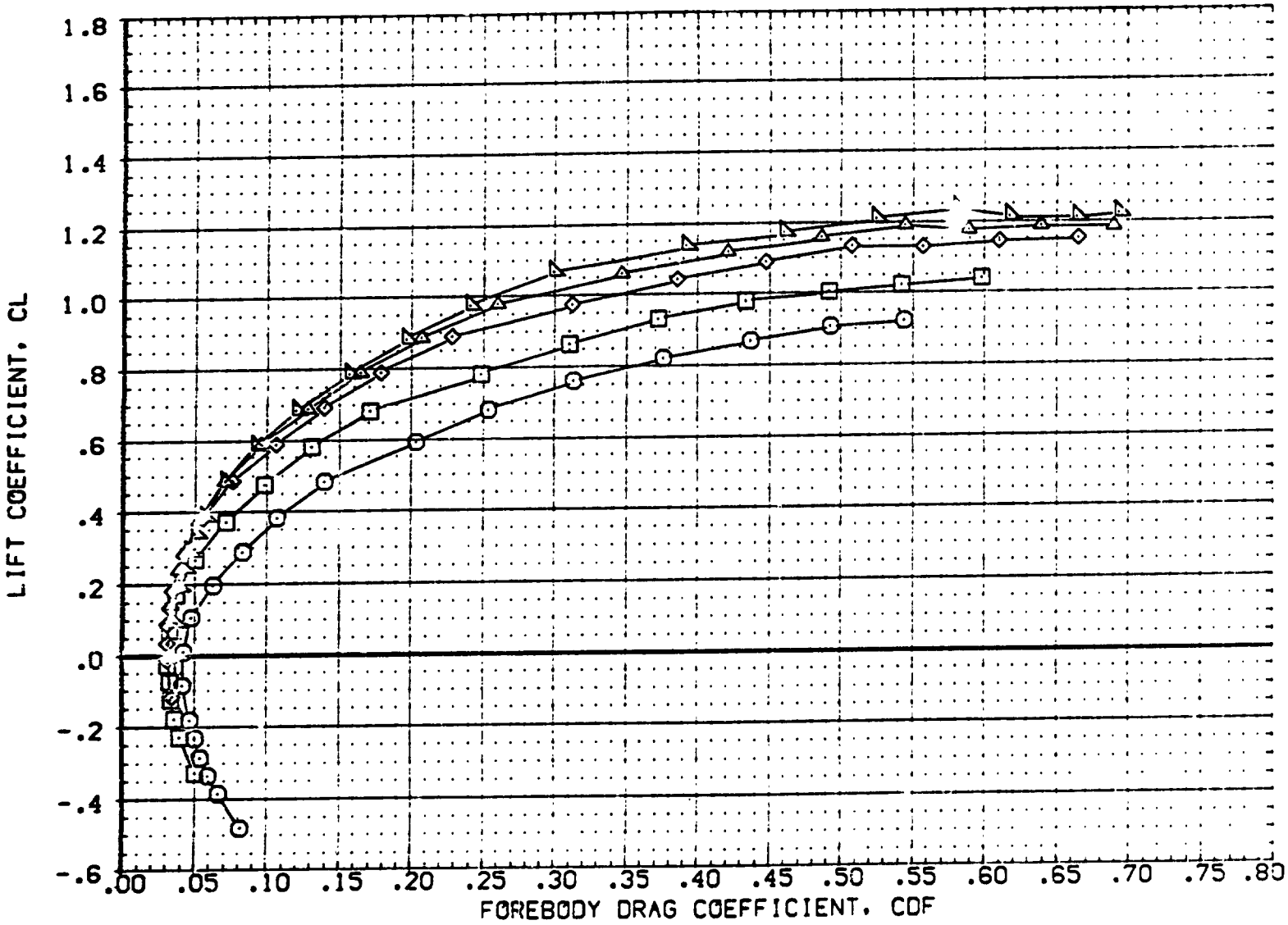
ELEVON EFFECTIVENESS -89B FERRY CONFIGURATION - J14 ABPS

(A)MACH = 0.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	AILRON	NACX/L
(ADS012)	○	OA71A B16C5 D7 F1J14V87 E18V3R3X10	.000	-20.000	.000	.000
(ADS015)	□	OA71A B16C5 D7 F1J14V87 E18V3R3X10	.000	-10.000	.000	.000
(ADS022)	◇	OA71A B16C5 D7 F1J14V87 E18V3R3X10	.000	.000	.000	.000
(ADS017)	△	OA71A B16C5 D7 F1J14V87 E18V3R3X10	.000	5.000	.000	.000
(ADS013)	▽	OA71A B16C5 D7 F1J14V87 E18V3R3X10	.000	10.000	.000	.000

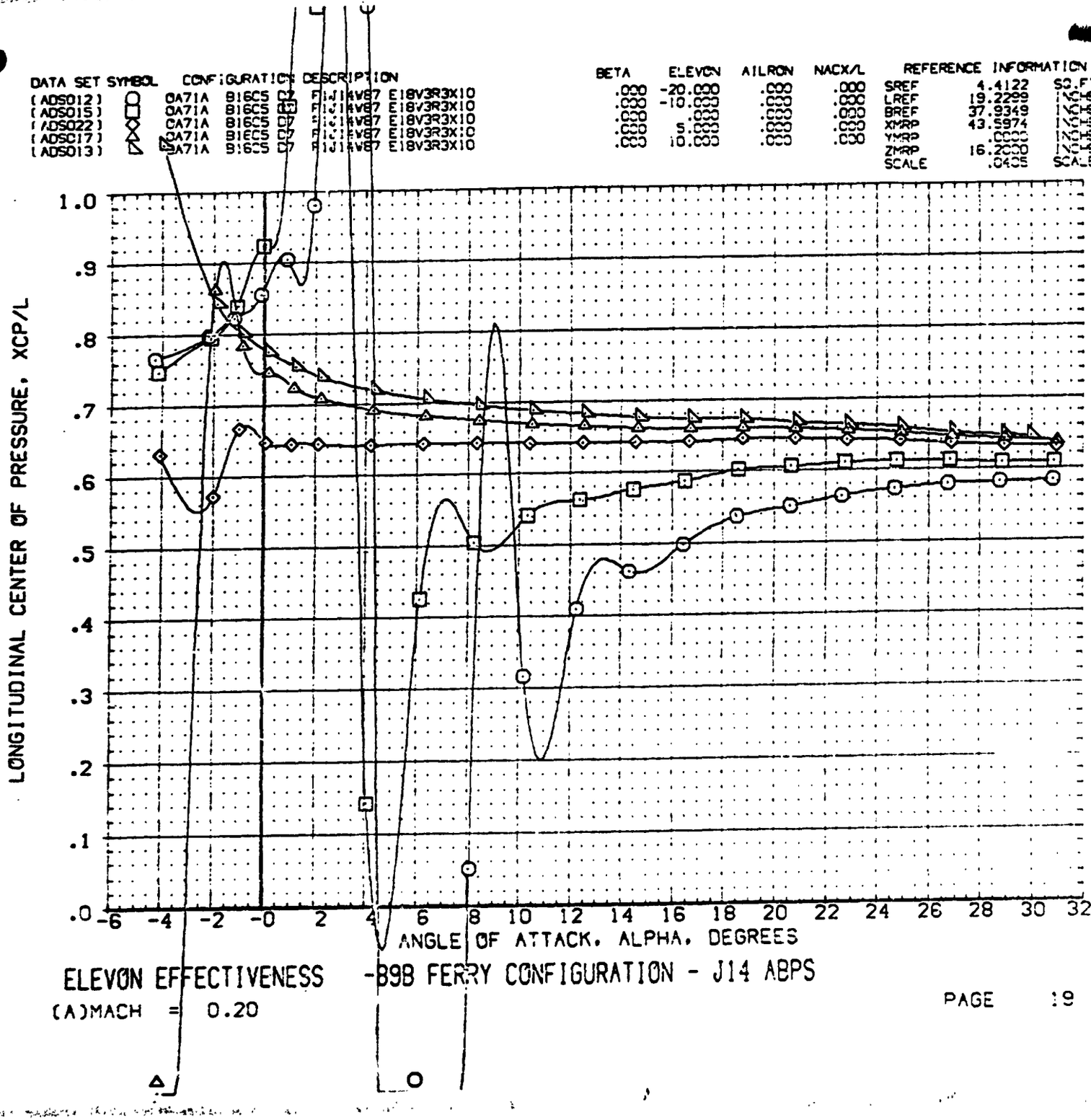
REFERENCE INFORMATION

SREF	4.4122
LREF	19.2299
BREF	37.9349
XMRP	43.1974
YMRP	.0000
ZMRP	16.2000
SCALE	.0405



ELEVON EFFECTIVENESS -89B FERRY CONFIGURATION - J14 ABPS

(A)MACH = 0.20

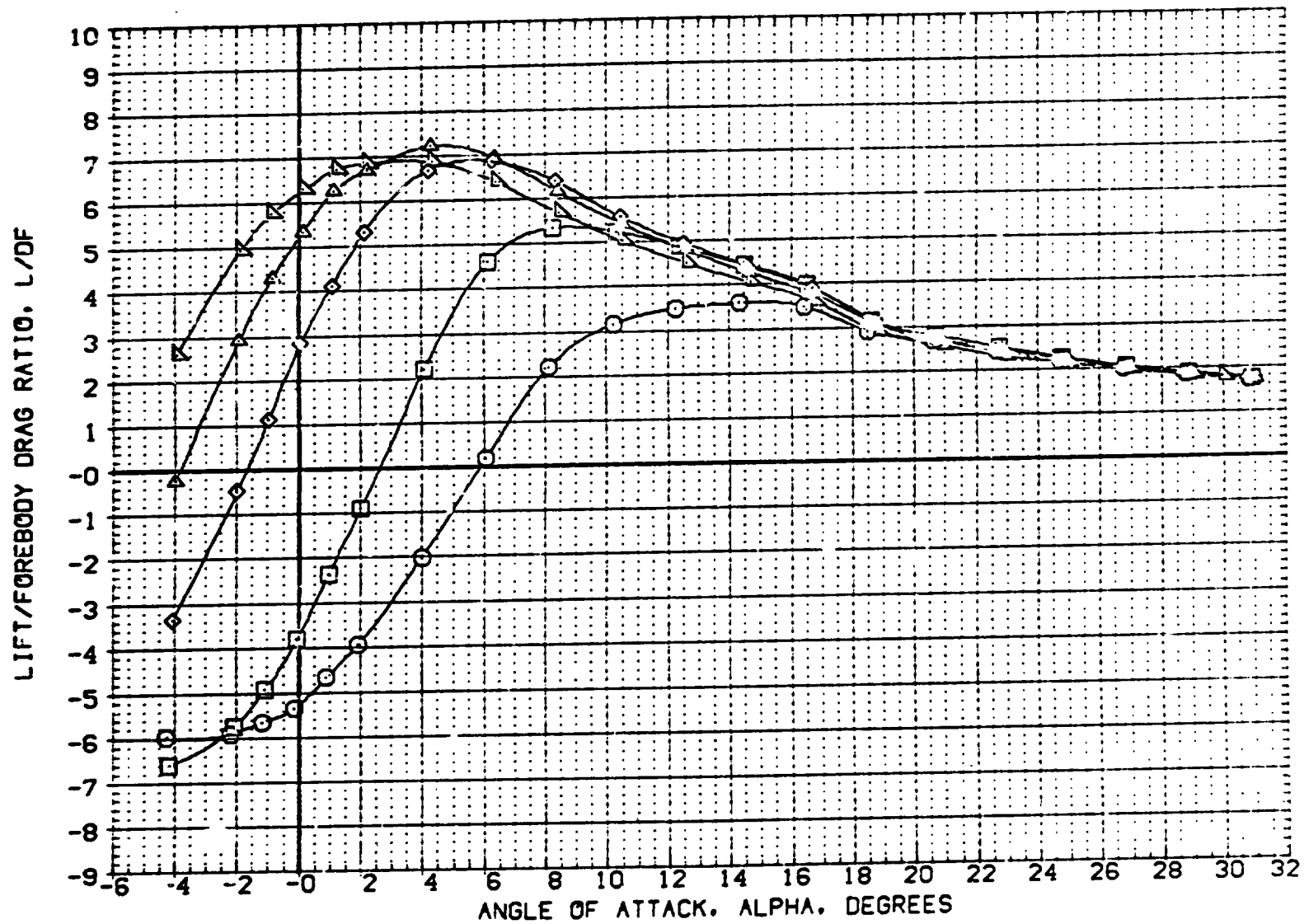


ELEVON EFFECTIVENESS -89B FERRY CONFIGURATION - J14 ABPS

(A)MACH = 0.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	AILRON	NACX/L
(ADS012)	□	0A71A B16C5 D7 F1J14V87 E18V3R3X10	.000	-20.000	.000	.000
(ADS015)	□	0A71A B16C5 D7 F1J14V87 E18V3R3X10	.000	-10.000	.000	.000
(ADS022)	◇	0A71A B16C5 D7 F1J14V87 E18V3R3X10	.000	.000	.000	.000
(ADS017)	△	0A71A B16C5 D7 F1J14V87 E18V3R3X10	.000	5.000	.000	.000
(ADS013)	◁	0A71A B16C5 D7 F1J14V87 E18V3R3X10	.000	10.000	.000	.000

REFERENCE INFORMATION		
SREF	4.4122	SQ.FT.
CREF	19.2299	INCHES
BREF	37.9349	INCHES
XMRP	43.6974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

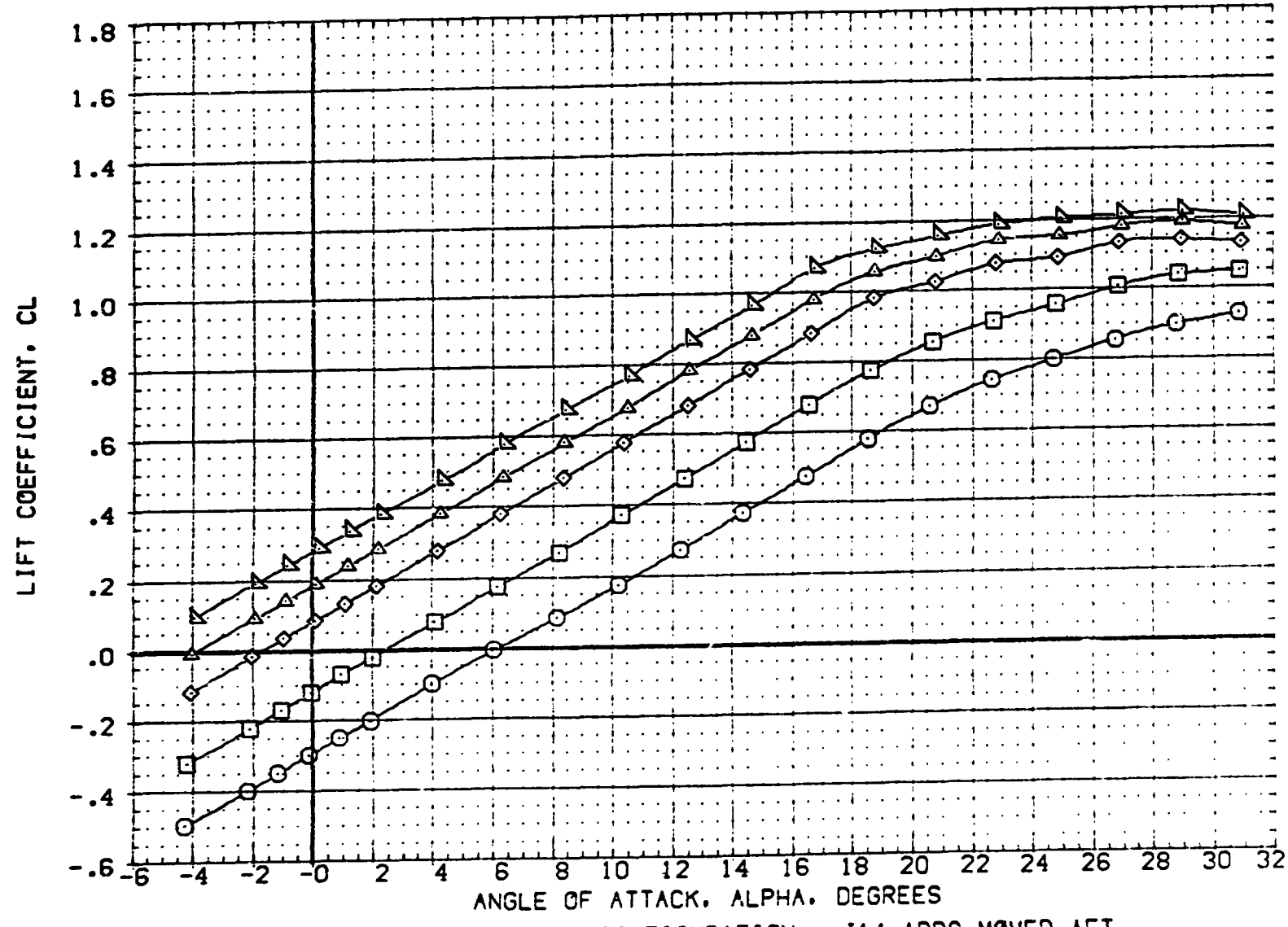


ELEVON EFFECTIVENESS -89B FERRY CONFIGURATION - J14 ABPS

(A)MACH = 0.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	AILRON	NACX/L
(ADS032)	□	0A71A B16C5 D7 F1J14V87 E18V3R3X10	.000	-20.000	.000	.200
(ADS028)	○	0A71A B16C5 D7 F1J14V87 E18V3R3X10	.000	-10.000	.000	.200
(ADS023)	◇	0A71A B16C5 D7 F1J14V87 E18V3R3X10	.000	.000	.000	.200
(ADS026)	△	0A71A B16C5 D7 F1J14V87 E18V3R3X10	.000	5.000	.000	.200
(ADS031)	▽	0A71A B16C5 D7 F1J14V87 E18V3R3X10	.000	10.000	.000	.200

REFERENCE INFORMATION		
SREF	4.4122	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9349	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE



ELEVON EFFECTIVENESS -89B FERRY CONFIGURATION - J14 ABPS MOVED AFT

(A)MACH = 0.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	AILRON	NACX/L
(ADS032)	○	CA71A B16C5 D7 F1J14V87 E18V3R3X10	.000	-20.000	.000	.200
(ADS028)	□	CA71A B16C5 D7 F1J14V87 E18V3R3X10	.000	-10.000	.000	.200
(ADS023)	◇	CA71A B16C5 D7 F1J14V87 E19V3R3X10	.000	.000	.000	.200
(ADS026)	△	CA71A B16C5 D7 F1J14V87 E18V3R3X10	.000	5.000	.000	.200
(ADS031)	▽	CA71A B16C5 D7 F1J14V87 E18V3R3X10	.000	10.000	.000	.200

REFERENCE INFORMATION

SREF	4.4122	SQ.FT.
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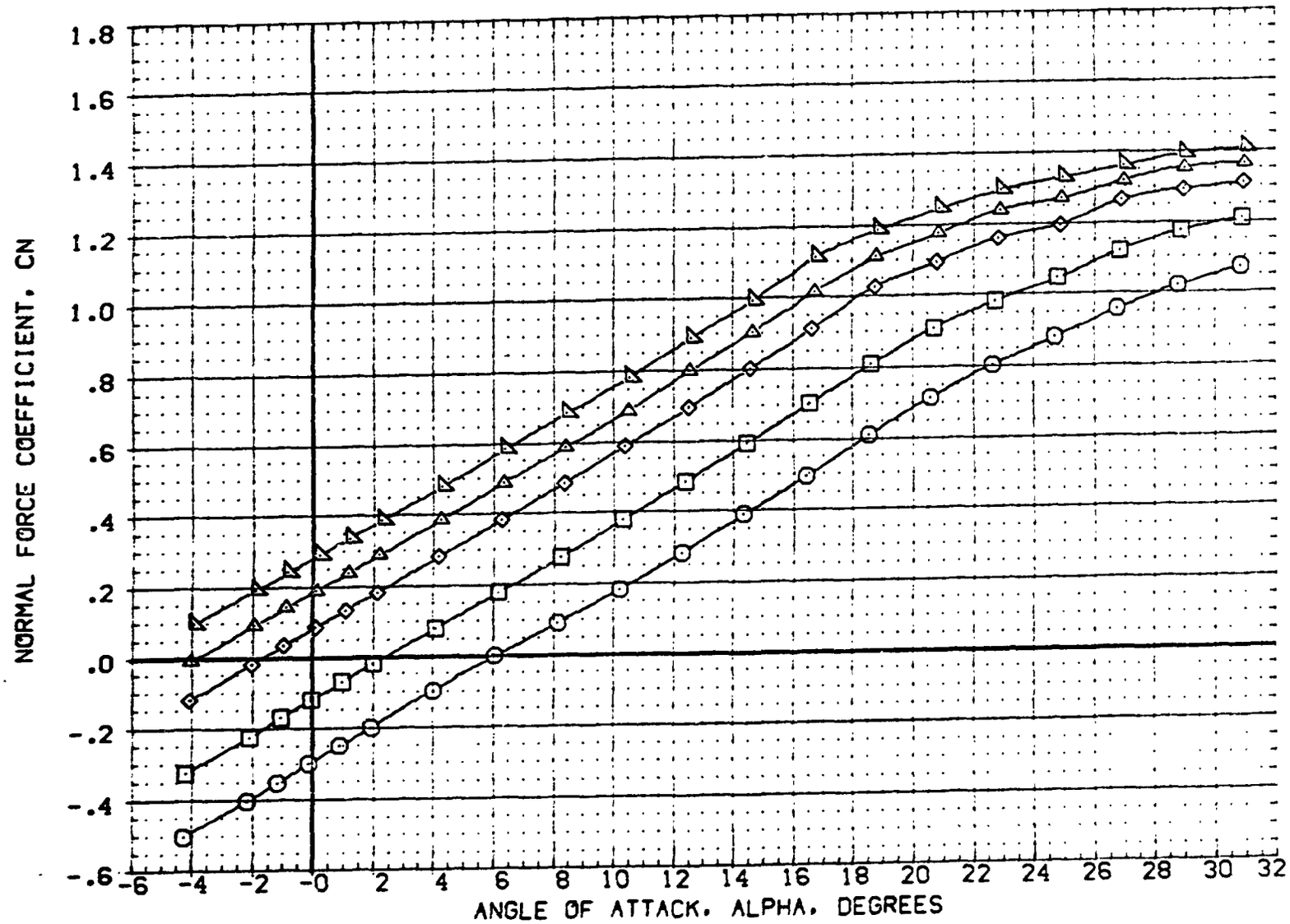
BREF	37.9349	[illegible]
XMRP	43.5974	[illegible]
YMRP	.0000	[illegible]
ZMRP	16.2300	[illegible]
SCALE	.0400	[illegible]

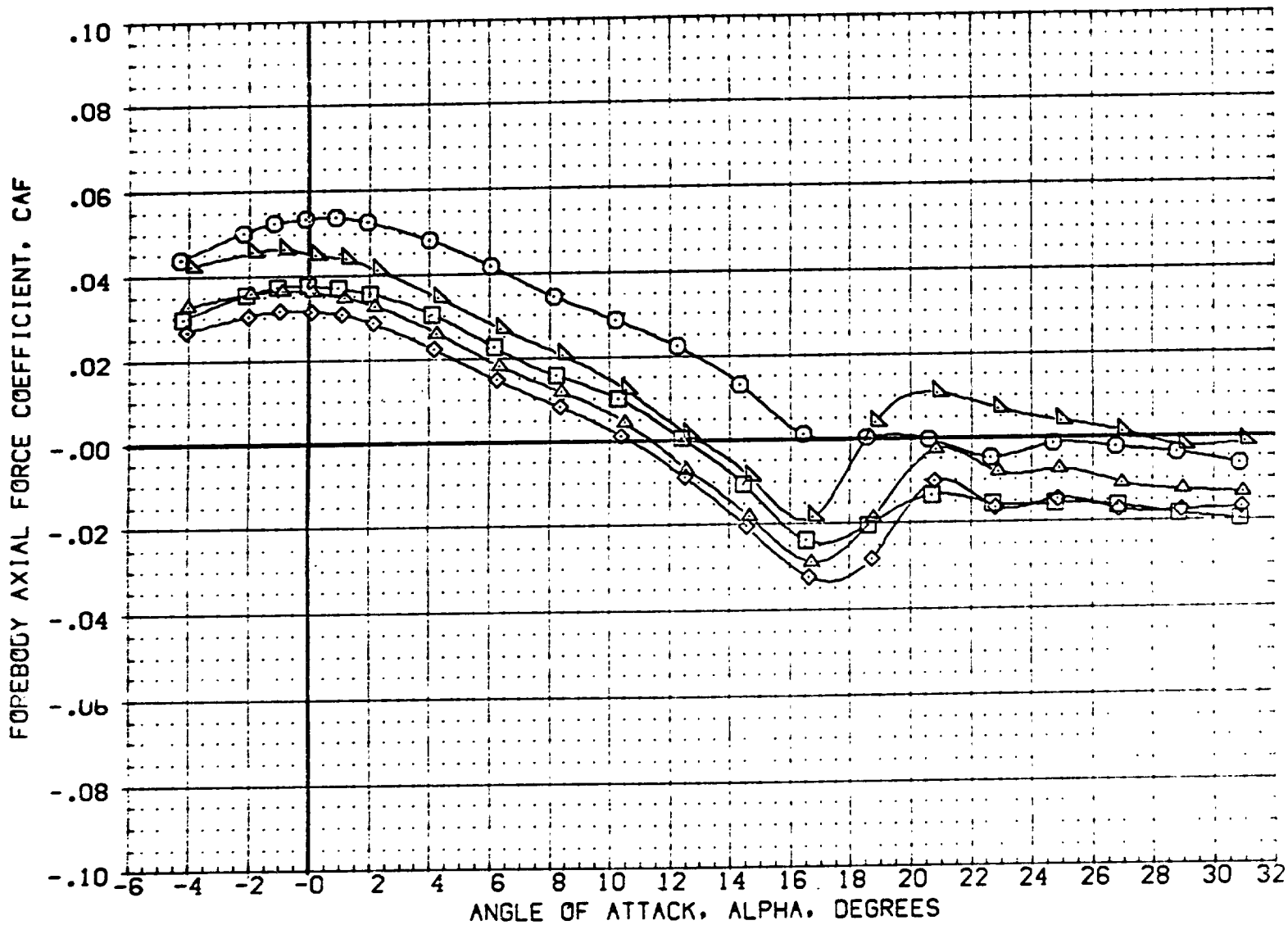


ELEVON EFFECTIVENESS -89B FERRY CONFIGURATION - J14 ABPS MOVED AFT

(A)MACH = 0.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	AILRON	NACX/L
(ADS032)	○	CA71A B16C5 D7 F1J14V87 E18V3R3X10	.000	-20.000	.000	.200
(ADS028)	□	CA71A B16C5 D7 F1J14V87 E18V3R3X10	.000	-10.000	.000	.200
(ADS023)	◇	CA71A B16C5 D7 F1J14V87 E18V3R3X10	.000	.000	.000	.200
(ADS026)	△	CA71A B16C5 D7 F1J14V87 E18V3R3X10	.000	5.000	.000	.200
(ADS031)	▽	CA71A B16C5 D7 F1J14V87 E18V3R3X10	.000	10.000	.000	.200

REFERENCE INFORMATION		
SREF	4.4122	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9349	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

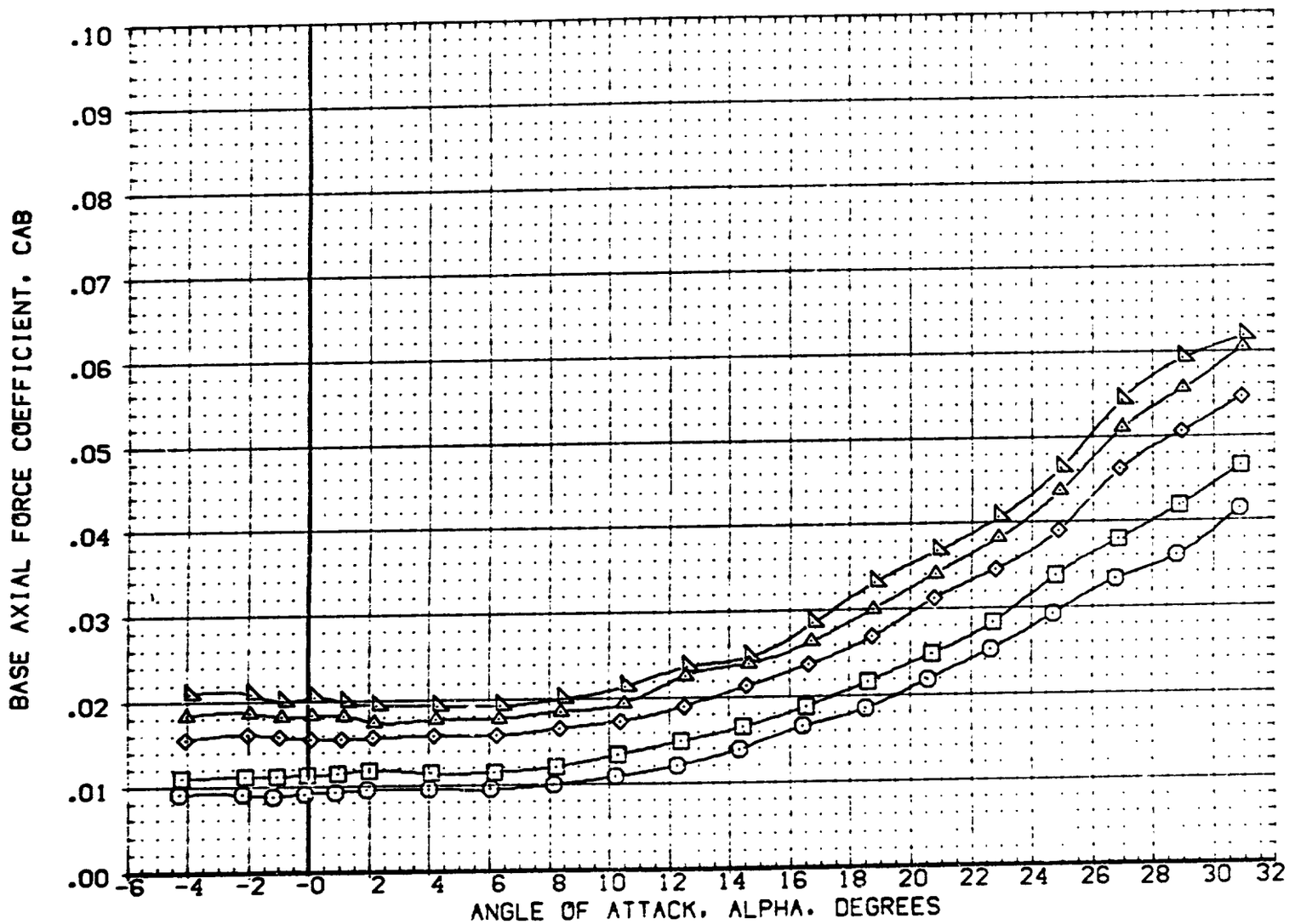


ELEVON EFFECTIVENESS -89B FERRY CONFIGURATION - J14 ABPS MOVED AFT

(A)MACH = 0.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	AILRON	NACX/L
(ADS032)	□	OA71A B16C5 D7 F1J14V87 E18V3R3X10	.000	-20.000	.000	.200
(ADS028)	◇	OA71A B16C5 D7 F1J14V87 E18V3R3X10	.000	-10.000	.000	.200
(ADS023)	○	OA71A B16C5 D7 F1J14V87 E18V3R3X10	.000	.000	.000	.200
(ADS026)	△	OA71A B16C5 D7 F1J14V87 E18V3R3X10	.000	5.000	.000	.200
(ADS031)	◁	OA71A B16C5 D7 F1J14V87 E18V3R3X10	.000	10.000	.000	.200

REFERENCE INFORMATION		
SREF	4.4122	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9349	INCHES
XMRP	43.3974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE



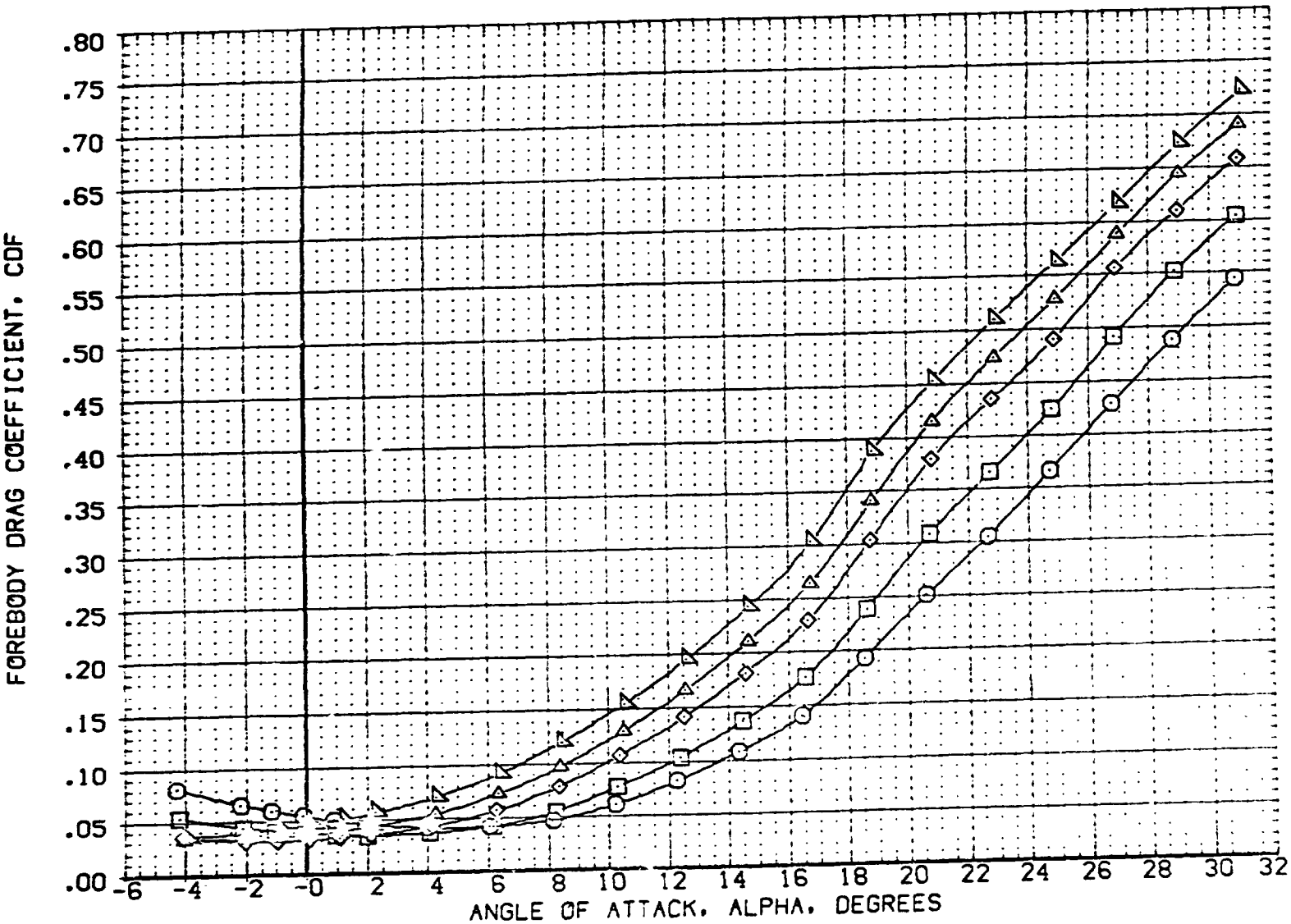
ELEVON EFFECTIVENESS -89B FERRY CONFIGURATION - J14 ABPS MOVED AFT

(A)MACH = 0.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(ADS032)	□	OA7:A B16C5 D7 F14V87 E18V3R3X10
(ADS028)	◇	OA7:A B16C5 D7 F14V87 E18V3R3X10
(ADS023)	⊠	OA7:A B16C5 D7 F14V87 E18V3R3X10
(ADS026)	△	OA7:A B16C5 D7 F14V87 E18V3R3X10
(ADS031)	▽	OA7:A B16C5 D7 F14V87 E18V3R3X10

BETA	ELEVON	AILRON	NACX/L
.000	-20.000	.000	.200
.000	-10.000	.000	.200
.000	.000	.000	.200
.000	5.000	.000	.200
.000	10.000	.000	.200

REFERENCE INFORMATION		
SREF	4.4122	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9349	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

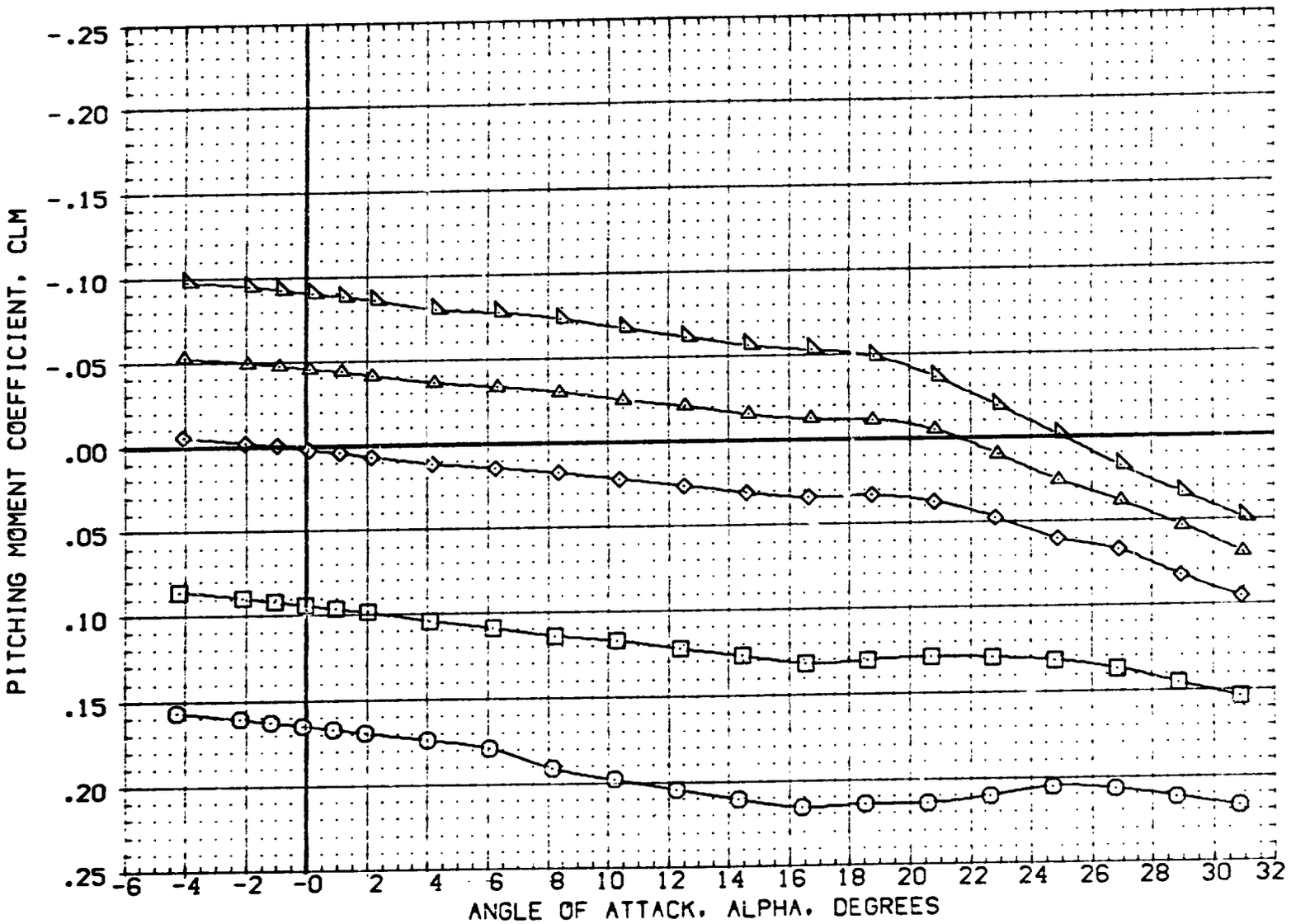


ELEVON EFFECTIVENESS -89B FERRY CONFIGURATION - J14 ABPS MOVED AFT

(A)MACH = 0.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	AILRON	NACX/L
(ADS032)	○	0A71A B16C5 D7 F1J14V87 E18V3R3X10	.000	-20.000	.000	.200
(ADS028)	□	0A71A B16C5 D7 F1J14V87 E18V3R3X10	.000	-10.000	.000	.200
(ADS023)	◇	0A71A B16C5 D7 F1J14V87 E18V3R3X10	.000	.000	.000	.200
(ADS026)	△	0A71A B16C5 D7 F1J14V87 E18V3R3X10	.000	5.000	.000	.200
(ADS031)	▷	0A71A B16C5 D7 F1J14V87 E18V3R3X10	.000	10.000	.000	.200

REFERENCE INFORMATION		
SREF	4.4122	SQ.FT.
LREF	19.2298	INCHES
BREF	37.9349	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

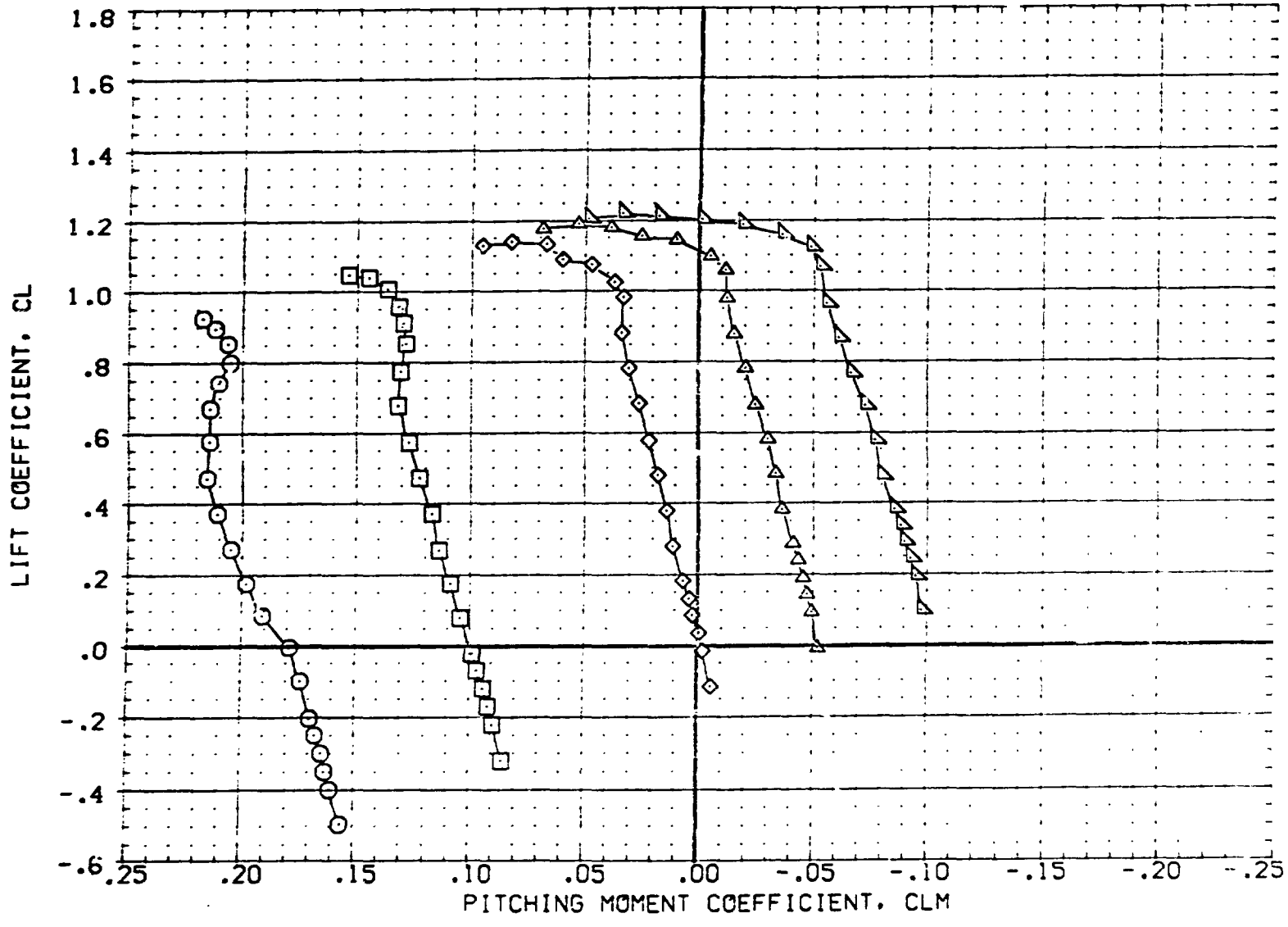


ELEVON EFFECTIVENESS -89B FERRY CONFIGURATION - J14 ABPS MOVED AFT

(A)MACH = 0.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	AILPON	NACX/L
(ADS032)	○	OA71A B16C5 07 F14V87 E18V3R3X10	.000	-20.000	.000	.200
(ADS028)	□	OA71A B16C5 07 F14V87 E18V3R3X10	.000	-10.000	.000	.200
(ADS023)	◇	OA71A B16C5 07 F14V87 E18V3R3X10	.000	.000	.000	.200
(ADS026)	◁	OA71A B16C5 07 F14V87 E18V3R3X10	.000	5.000	.000	.200
(ADS031)	△	OA71A B16C5 07 F14V87 E18V3R3X10	.000	10.000	.000	.200

REFERENCE INFORMATION		
SREF	4.4122	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9349	INCHES
XMRP	43.5874	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

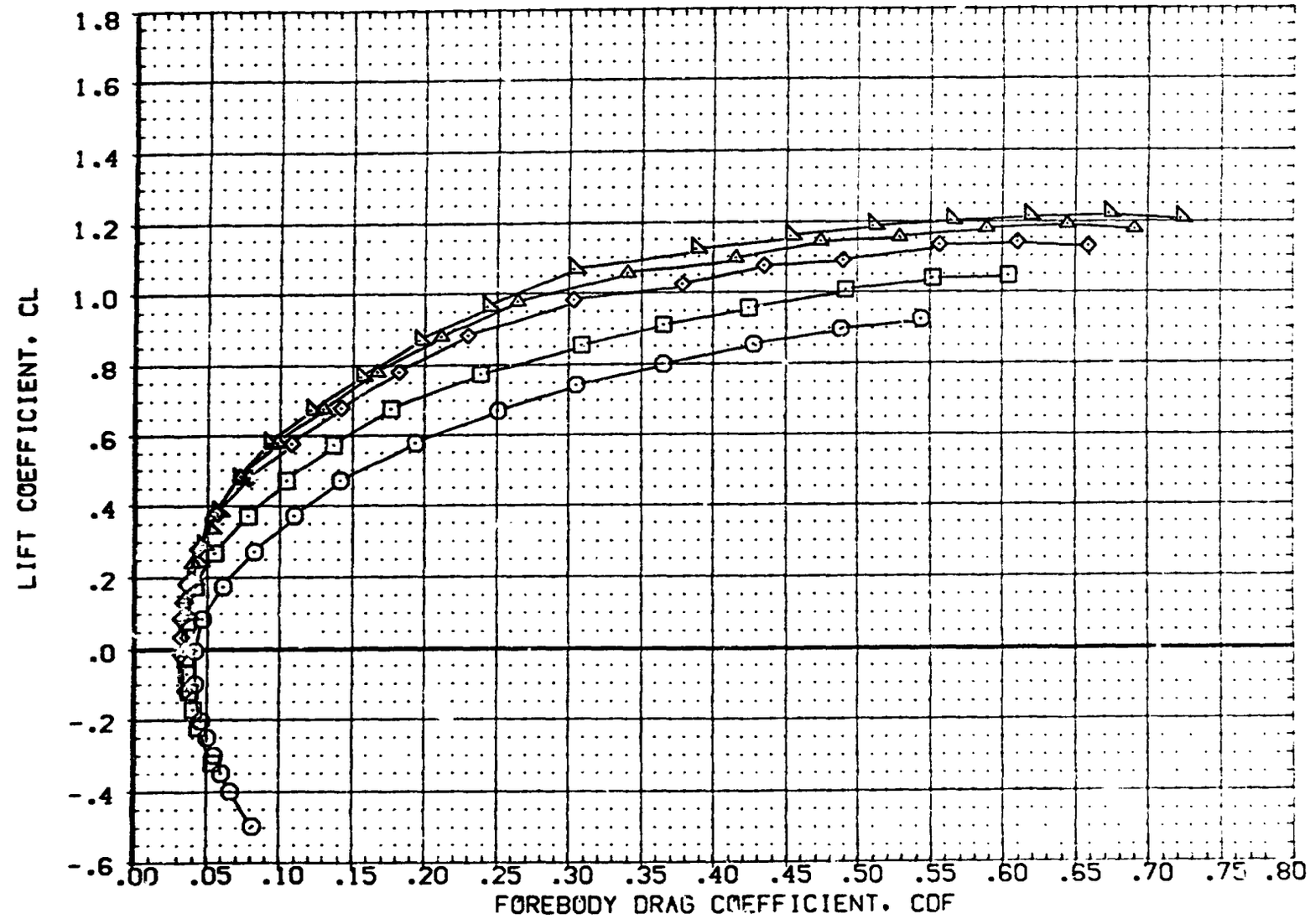


ELEVON EFFECTIVENESS -89B FERRY CONFIGURATION - J14 ABPS MOVED AFT

(A)MACH = 0.20

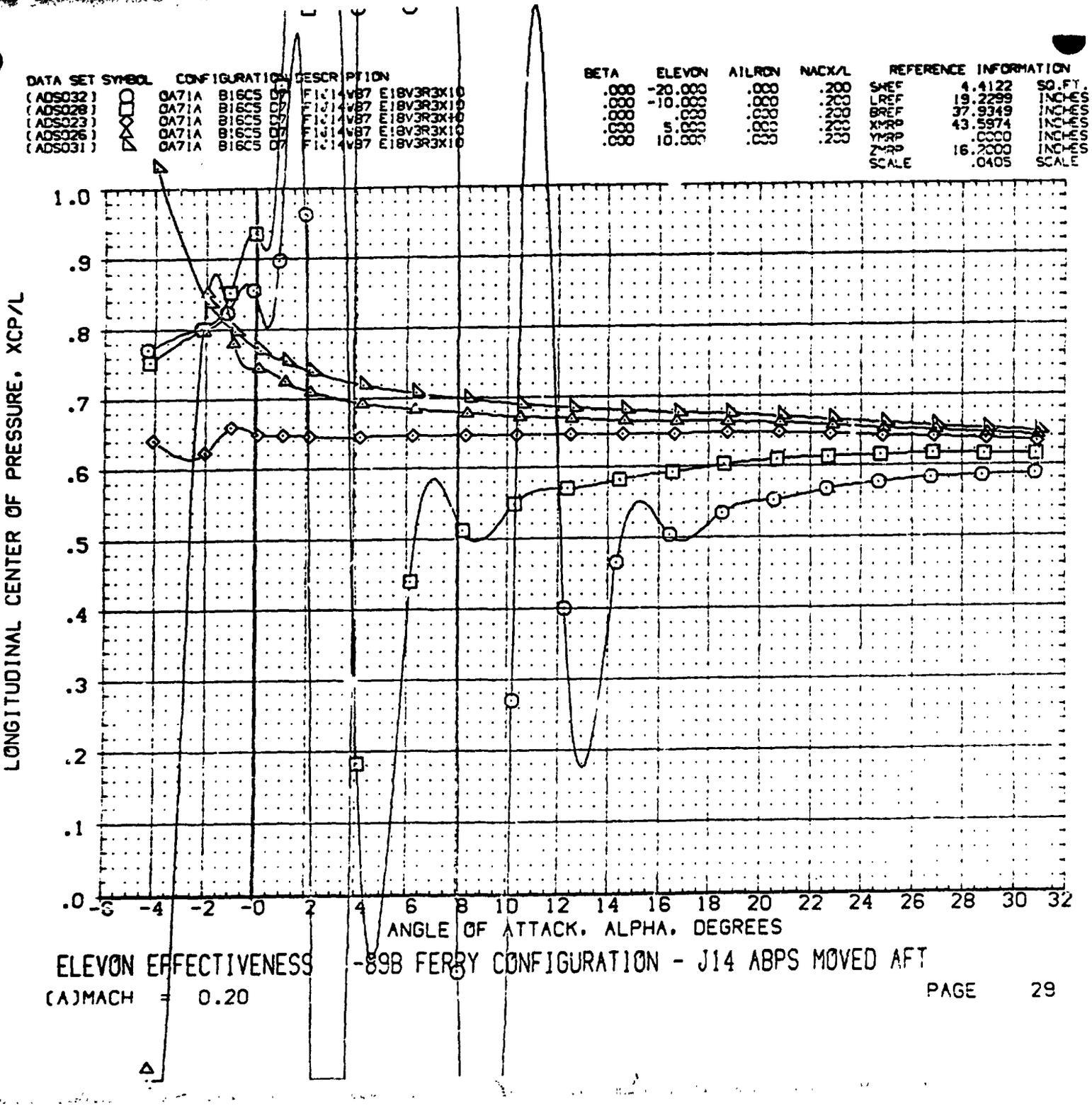
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	AILRON	NACX/L
(ADS032)	○	0A71A B16C5 D7 F1J14V87 E18V3R3X10	.000	-20.000	.000	.200
(ADS028)	□	0A71A B16C5 D7 F1J14V87 E18V3R3X10	.000	-10.000	.000	.200
(ADS023)	◇	0A71A B16C5 D7 F1J14V87 E18V3R3X10	.000	.000	.000	.200
(ADS026)	△	0A71A B16C5 D7 F1J14V87 E18V3R3X10	.000	5.000	.000	.200
(ADS031)	▷	0A71A B16C5 D7 F1J14V87 E18V3R3X10	.000	10.000	.000	.200

REFERENCE INFORMATION		
SREF	4.4122	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9349	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE



ELEVON EFFECTIVENESS -B9B FERRY CONFIGURATION - J14 ABPs MOVED AFT

(A)MACH = 0.20



ELEVON EFFECTIVENESS -89B FERRY CONFIGURATION - J14 ABPS MOVED AFT

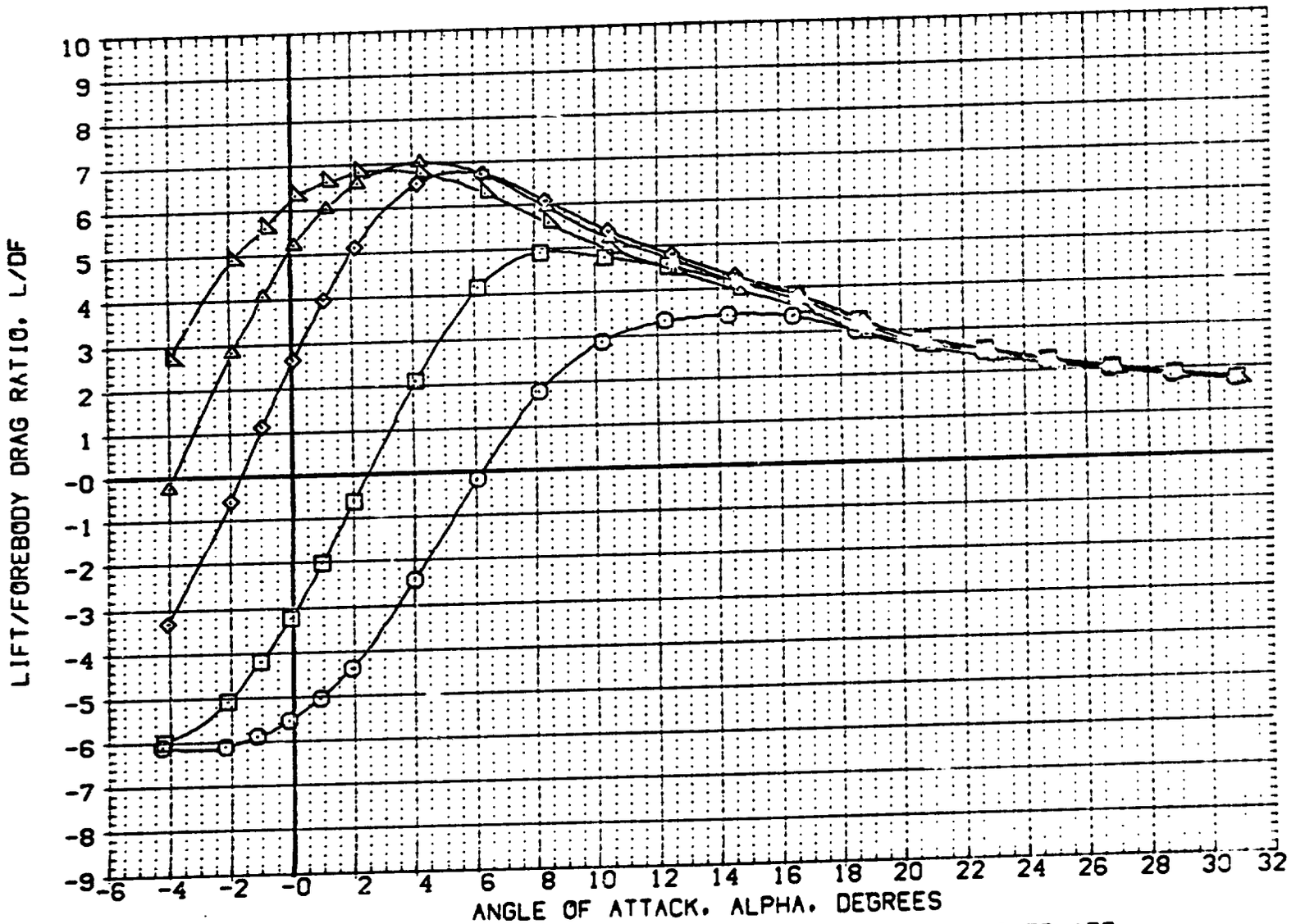
(A)MACH = 0.20

DATA SET	SYMBOL	CONFIGURATION	DESCRIPTION
(ADS032)	○	OA71A	B16C5 D7 F1J14V87 E18V3R3X10
(ADS028)	□	OA71A	B16C5 D7 F1J14V87 E18V3R3X10
(ADS023)	◇	OA71A	B16C5 D7 F1J14V87 E18V3R3X10
(ADS026)	△	OA71A	B16C5 D7 F1J14V87 E18V3R3X10
(ADS031)	▽	OA71A	B16C5 D7 F1J14V87 E18V3R3X10

BETA	ELEVON	AILRON	NACX/L
.000	-20.000	.000	.200
.000	-10.000	.000	.200
.000	.000	.000	.200
.000	5.000	.000	.200
.000	10.000	.000	.200

REFERENCE INFORMATION

SREF	4.4122	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9349	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	15.2000	INCHES
SCALE	.0405	SCALE

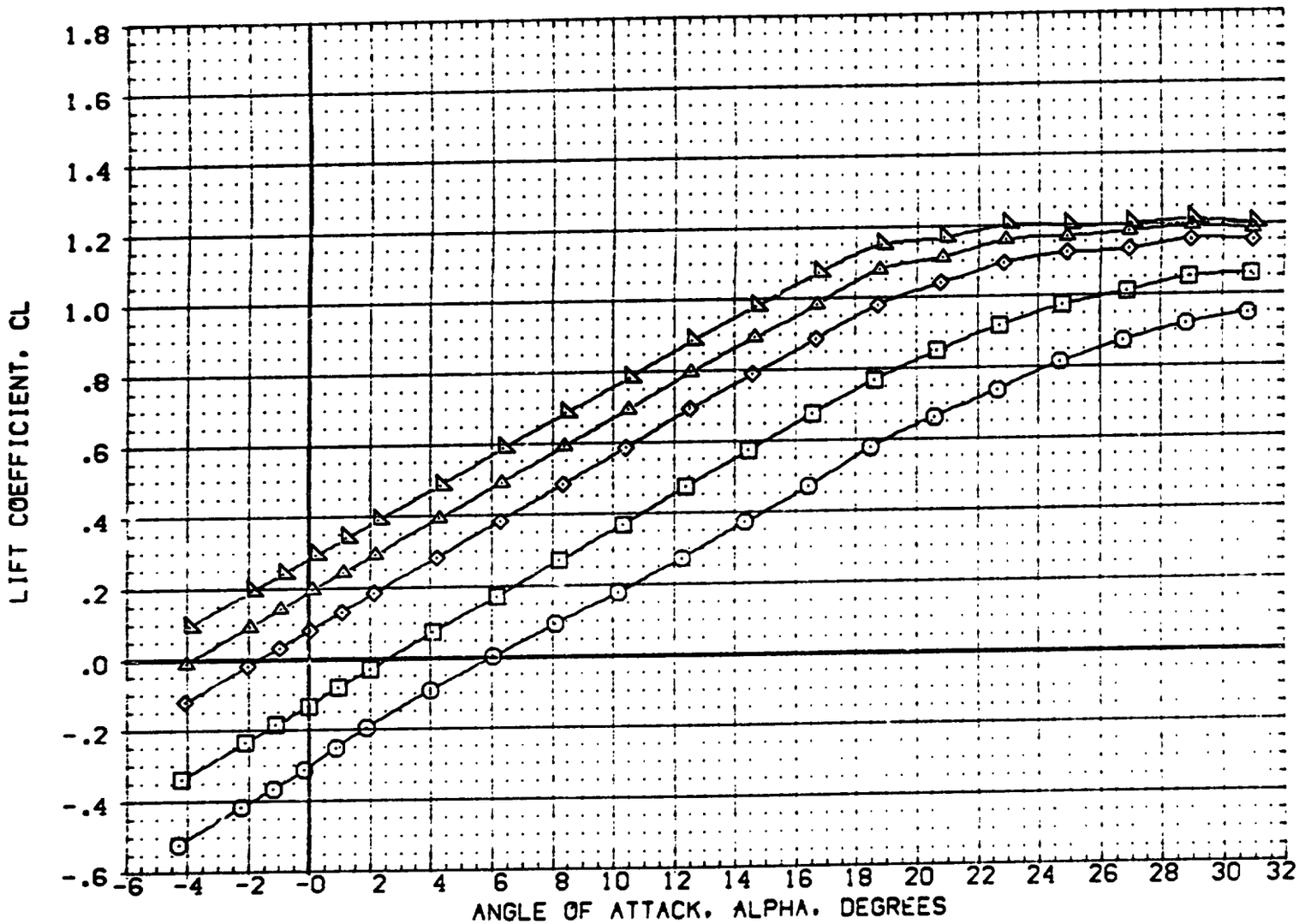


ELEVON EFFECTIVENESS -89B FERRY CONFIGURATION - J14 ABPS MOVED AFT

(A)MACH = 0.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	AILRON	NACX/L
(ADS056)	○	0A71A B16C5 D7 F1J17V87 E18V3R3X10	.000	-20.000	.000	.000
(ADS051)	□	0A71A B16C5 D7 F1J17V87 E18V3R3X10	.000	-10.000	.000	.000
(ADS046)	◇	0A71A B16C5 D7 F1J17V87 E18V3R3X10	.000	.000	.000	.000
(ADS049)	△	0A71A B16C5 D7 F1J17V87 E18V3R3X10	.000	5.000	.000	.000
(ADS054)	▽	0A71A B16C5 D7 F1J17V87 E18V3R3X10	.000	10.000	.000	.000

REFERENCE INFORMATION		
SREF	4.4122	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9349	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE



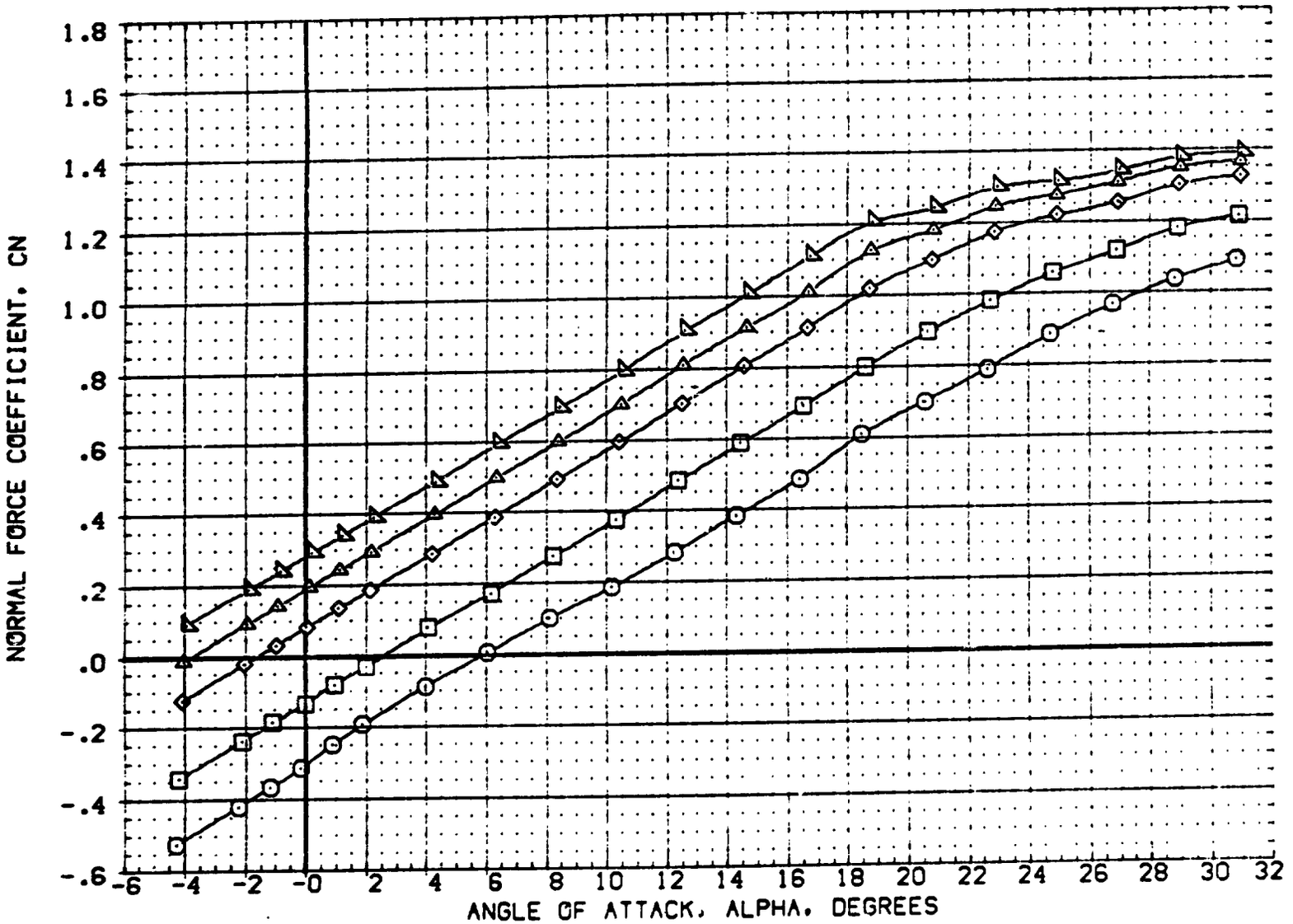
ELEVON EFFECTIVENESS -89B FERRY CONFIGURATION - J17 ABPS

(A)MACH = 0.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	AILRON	NACX/L
(ADS056)	□	0A71A B16C5 D7 F1J17V87 E18V3R3X10	.000	-20.000	.000	.000
(ADS051)	○	0A71A B16C5 D7 F1J17V87 E18V3R3X10	.000	-10.000	.000	.000
(ADS046)	◇	0A71A B16C5 D7 F1J17V87 E18V3R3X10	.000	5.000	.000	.000
(ADS049)	△	0A71A B16C5 D7 F1J17V87 E18V3R3X10	.000	10.000	.000	.000
(ADS054)	▷	0A71A B16C5 D7 F1J17V87 E18V3R3X10				

REFERENCE INFORMATION

SREF	4.4122	SQ.FT
CREF	19.2299	
BREF	37.9349	
XMRP	43.5974	
YMRP	.0000	
ZMRP	16.2000	
SCALE	.0405	



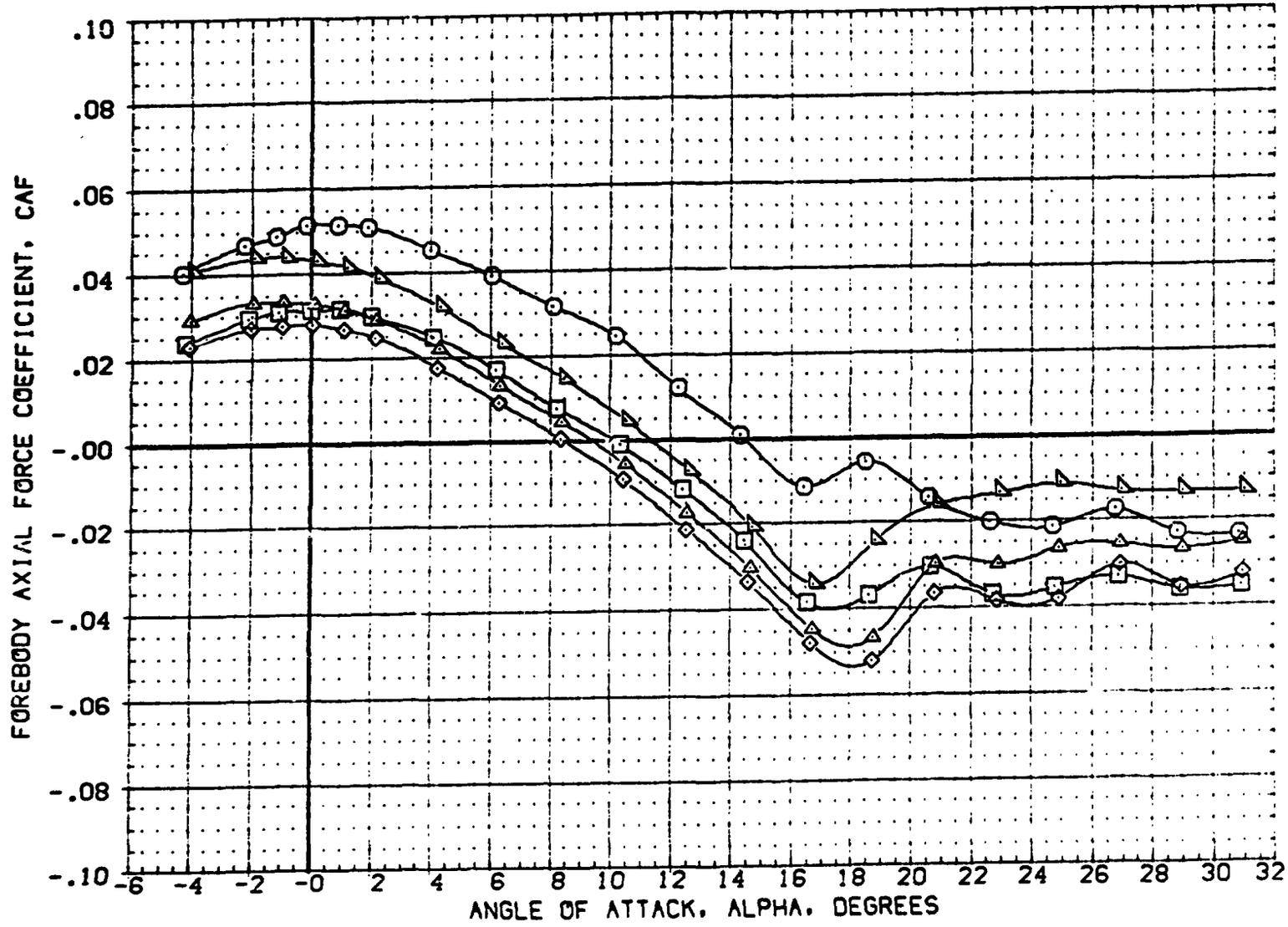
ELEVON EFFECTIVENESS -89B FERRY CONFIGURATION - J17 ABPS

(A)MACH = 0.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(ADS056)	○	0A71A B16C5 D7 F1617V87 E18V3R3X10
(ADS051)	□	0A71A B16C5 D7 F1617V87 E18V3R3X10
(ADS046)	◇	0A71A B16C5 D7 F1617V87 E18V3R3X10
(ADS049)	△	0A71A B16C5 D7 F1617V87 E18V3R3X10
(ADS054)	▽	0A71A B16C5 D7 F1617V87 E18V3R3X10

BETA	ELEVON	AILRON	NACX/L
.000	-20.000	.000	.000
.000	-10.000	.000	.000
.000	.000	.000	.000
.000	5.000	.000	.000
.000	10.000	.000	.000

REFERENCE INFORMATION		
SREF	4.4122	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9349	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE



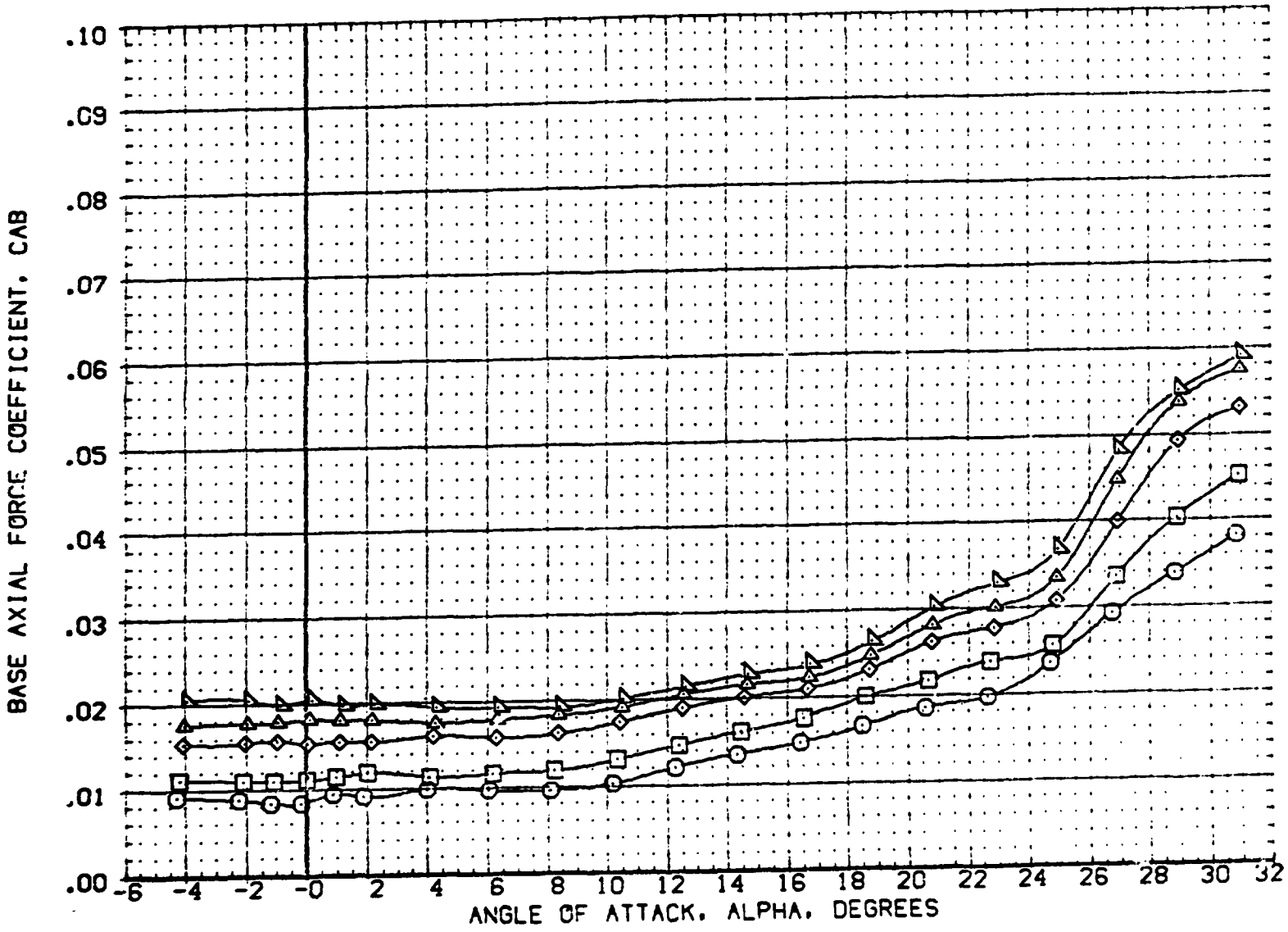
ELEVON EFFECTIVENESS -89B FERRY CONFIGURATION - J17 ABPS

(A)MACH = 0.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(ADS056)	○	0A71A B16C5 D7 FIJ17V87 18V3R3X10
(ADS055)	□	0A71A B16C5 D7 FIJ17V87 E18V3R3X10
(ADS048)	◇	0A71A B16C5 D7 FIJ17V87 E18V3R3X10
(ADS049)	△	0A71A B16C5 D7 FIJ17V87 E18V3R3X10
(ADS054)	◁	0A71A B16C5 D7 FIJ17V87 E18V3R3X10

BETA	ELEVON	AILRON	NACX/L
.000	-20.000	.000	.000
.000	-10.000	.000	.000
.000	.000	.000	.000
.000	5.000	.000	.000
.000	10.000	.000	.000

REFERENCE INFORMATION		
SREF	4.4122	SQ.FT.
CREF	19.2299	INCHES
BREF	37.83349	INCHES
XMRP	43.6974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.040S	SCALE



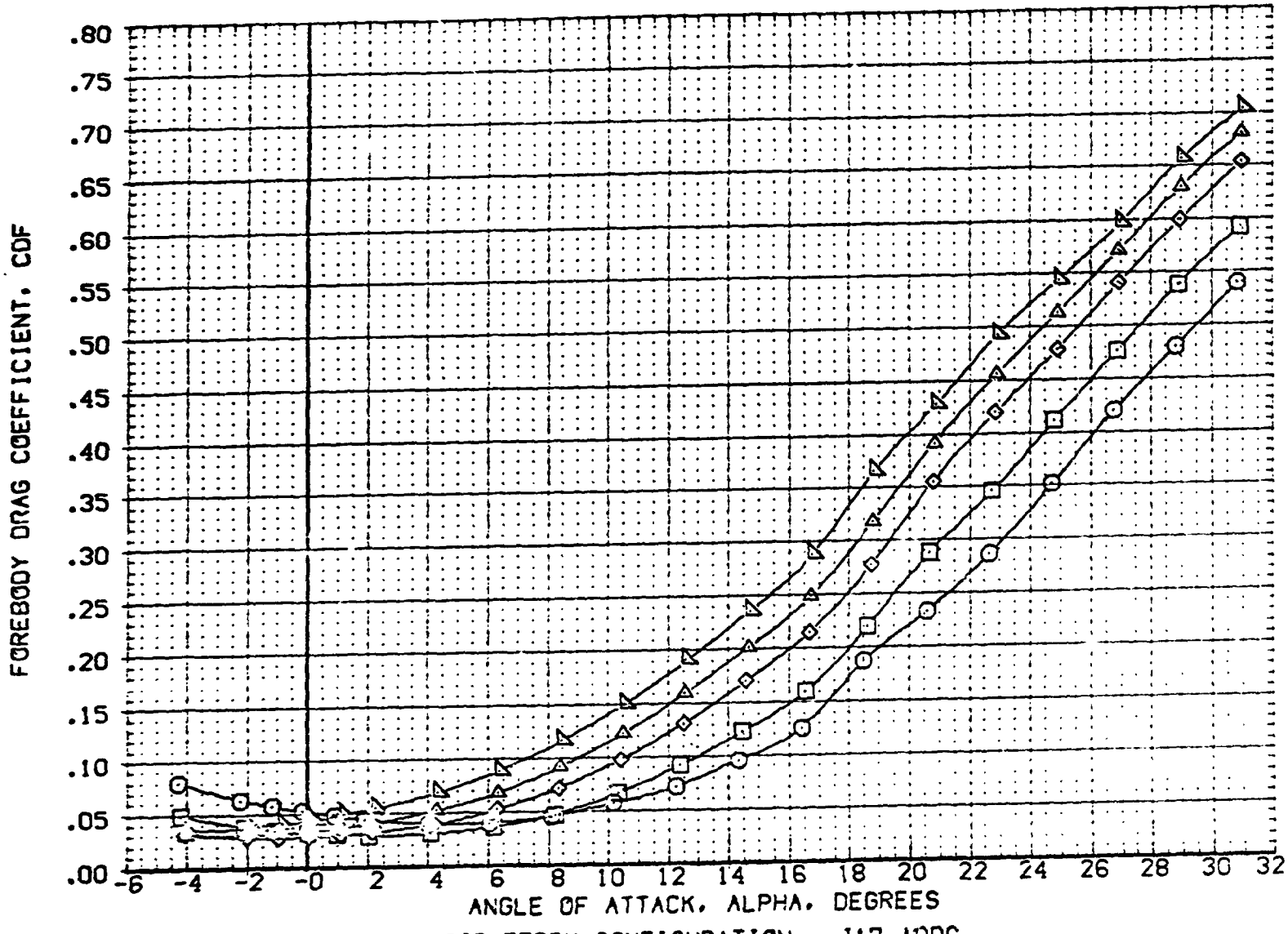
ELEVON EFFECTIVENESS -89B FERRY CONFIGURATION - J17 ABPS

(A)MACH = 0.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(ADS056)	○	0A71A B16C5 D7 F1J17V87 E18V3R3X10
(ADS051)	□	0A71A B16C5 D7 F1J17V87 E18V3R3X10
(ADS046)	◇	0A71A B16C5 D7 F1J17V87 E18V3R3X10
(ADS049)	△	0A71A B16C5 D7 F1J17V87 E18V3R3X10
(ADS054)	▽	0A71A B16C5 D7 F1J17V87 E18V3R3X10

BETA	ELEVON	AILRON	NACX/L
.000	-20.000	.000	.000
.000	-10.000	.000	.000
.000	.000	.000	.000
.000	5.000	.000	.000
.000	10.000	.000	.000

REFERENCE INFORMATION		
SREF	4.4122	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9349	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE



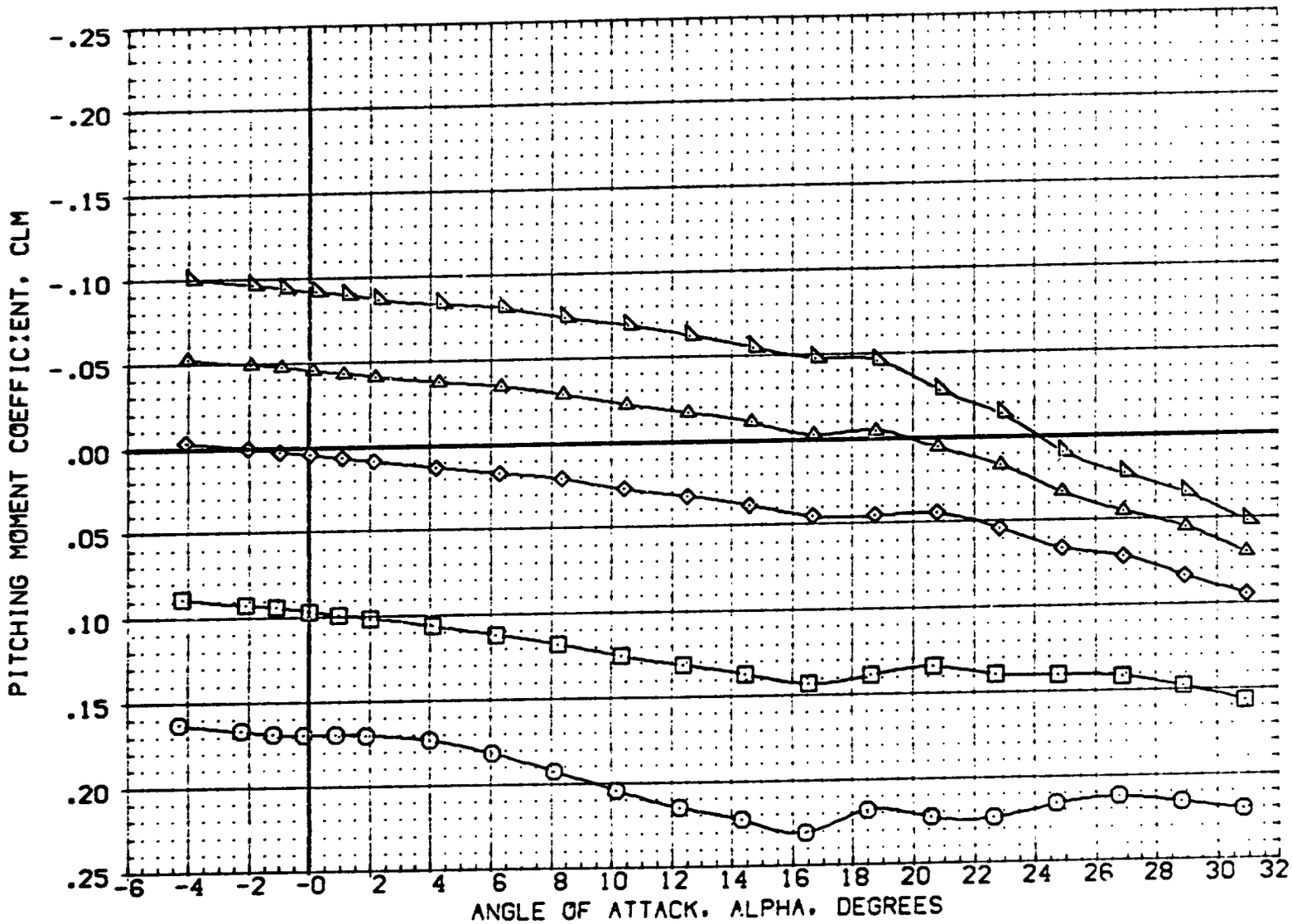
ELEVON EFFECTIVENESS -89B FERRY CONFIGURATION - J17 ABPS

(A)MACH = 0.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(ADS056)	□	CA71A B16C5 D7 F1J17V87 E18V3R3X10
(ADS051)	□	CA71A B16C5 D7 F1J17V87 E18V3R3X10
(ADS046)	◇	CA71A B16C5 D7 F1J17V87 E18V3R3X10
(ADS049)	△	CA71A B16C5 D7 F1J17V87 E18V3R3X10
(ADS054)	△	CA71A B16C5 D7 F1J17V87 E18V3R3X10

BETA	ELEVON	AILRON	NACX/L
.000	-20.000	.000	.000
.000	-10.000	.000	.000
.000	.000	.000	.000
.000	5.000	.000	.000
.000	10.000	.000	.000

REFERENCE INFORMATION		
SREF	4.4122	SQ.FT.
LREF	19.2299	FEET
BREF	37.9349	FEET
XMRP	43.5974	FEET
YMRP	.0000	FEET
ZMRP	16.2000	FEET
SCALE	.0405	SCALE

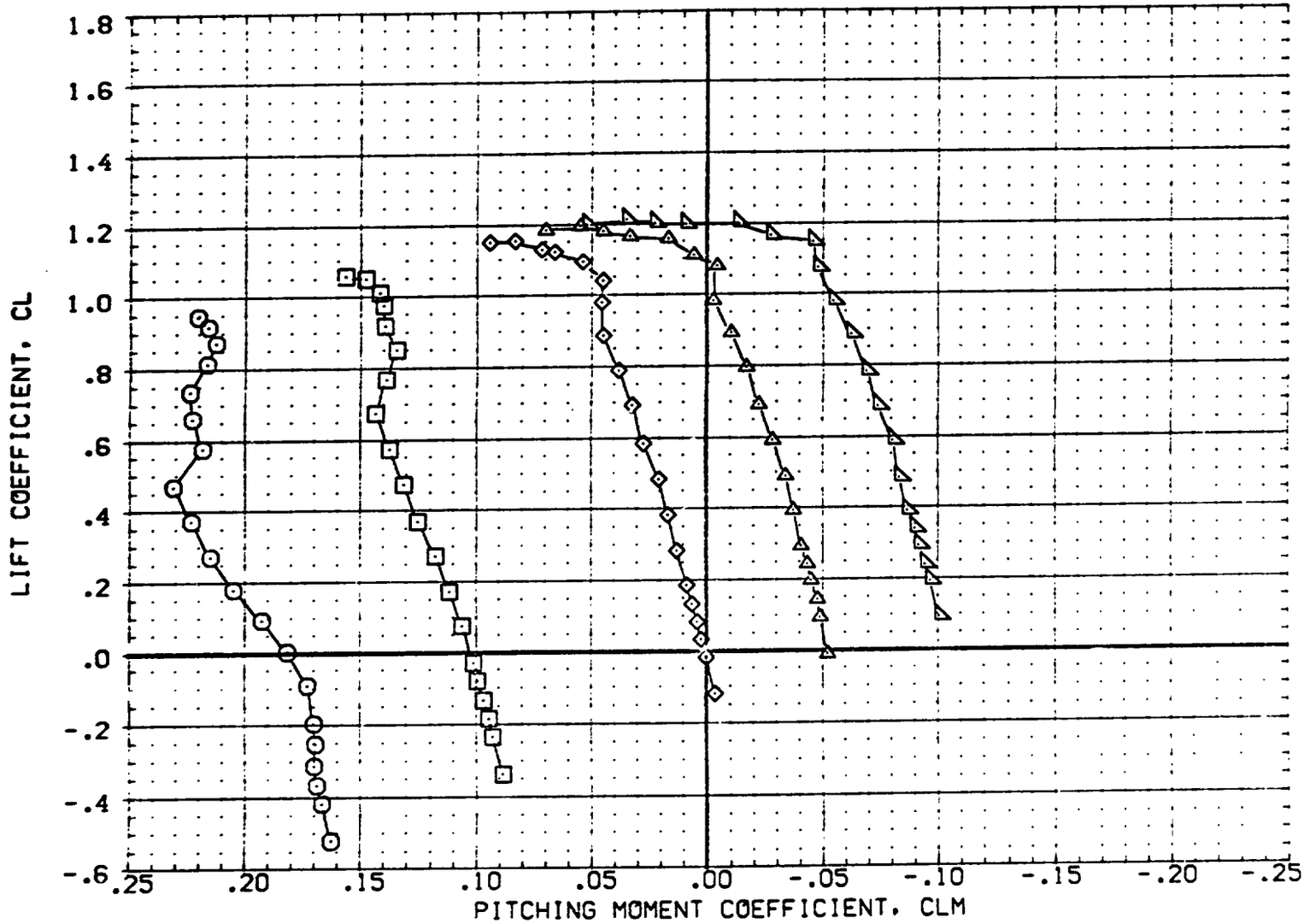


ELEVON EFFECTIVENESS -89B FERRY CONFIGURATION - J17 ABPS

(A)MACH = 0.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	AILRON	NACX/L
(ADS056)	□	CA71A B16C5 D7 F1J17W87 E18V3R3X10	.000	-20.000	.000	.000
(ADS051)	◇	CA71A B16C5 D7 F1J17W87 E18V3R3X10	.000	-10.000	.000	.000
(ADS046)	⋈	CA71A B16C5 D7 F1J17W87 E18V3R3X10	.000	.000	.000	.000
(ADS049)	⋈	CA71A B16C5 D7 F1J17W87 E18V3R3X10	.000	5.000	.000	.000
(ADS054)	△	CA71A B16C5 D7 F1J17W87 E18V3R3X10	.000	10.000	.000	.000

REFERENCE INFORMATION		
SREF	4.4122	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9349	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE



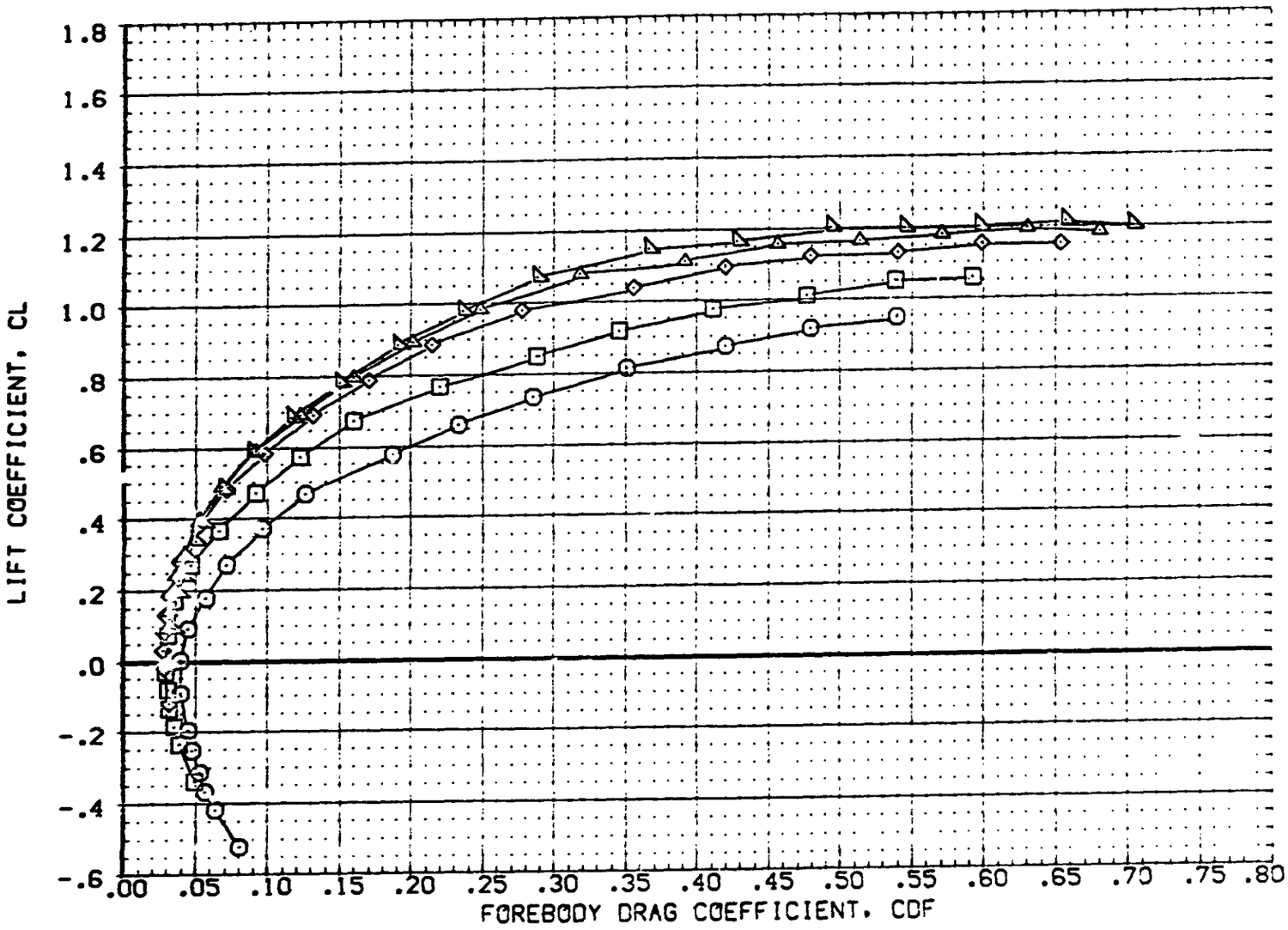
ELEVON EFFECTIVENESS -89B FERRY CONFIGURATION - J17 ABPS

(A)MACH = 0.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	AILRON	NACX/L
(ADS056)	□	CA71A B16C5 D7 F1J17V87 E18V3R3X10	.000	-20.000	.000	.000
(ADS051)	○	CA71A B16C5 D7 F1J17V87 E18V3R3X10	.000	-10.000	.000	.000
(ADS046)	◇	CA71A B16C5 D7 F1J17V87 E18V3R3X10	.000	.000	.000	.000
(ADS049)	△	CA71A B16C5 D7 F1J17V87 E18V3R3X10	.000	5.000	.000	.000
(ADS054)	▽	CA71A B16C5 D7 F1J17V87 E18V3R3X10	.000	10.000	.000	.000

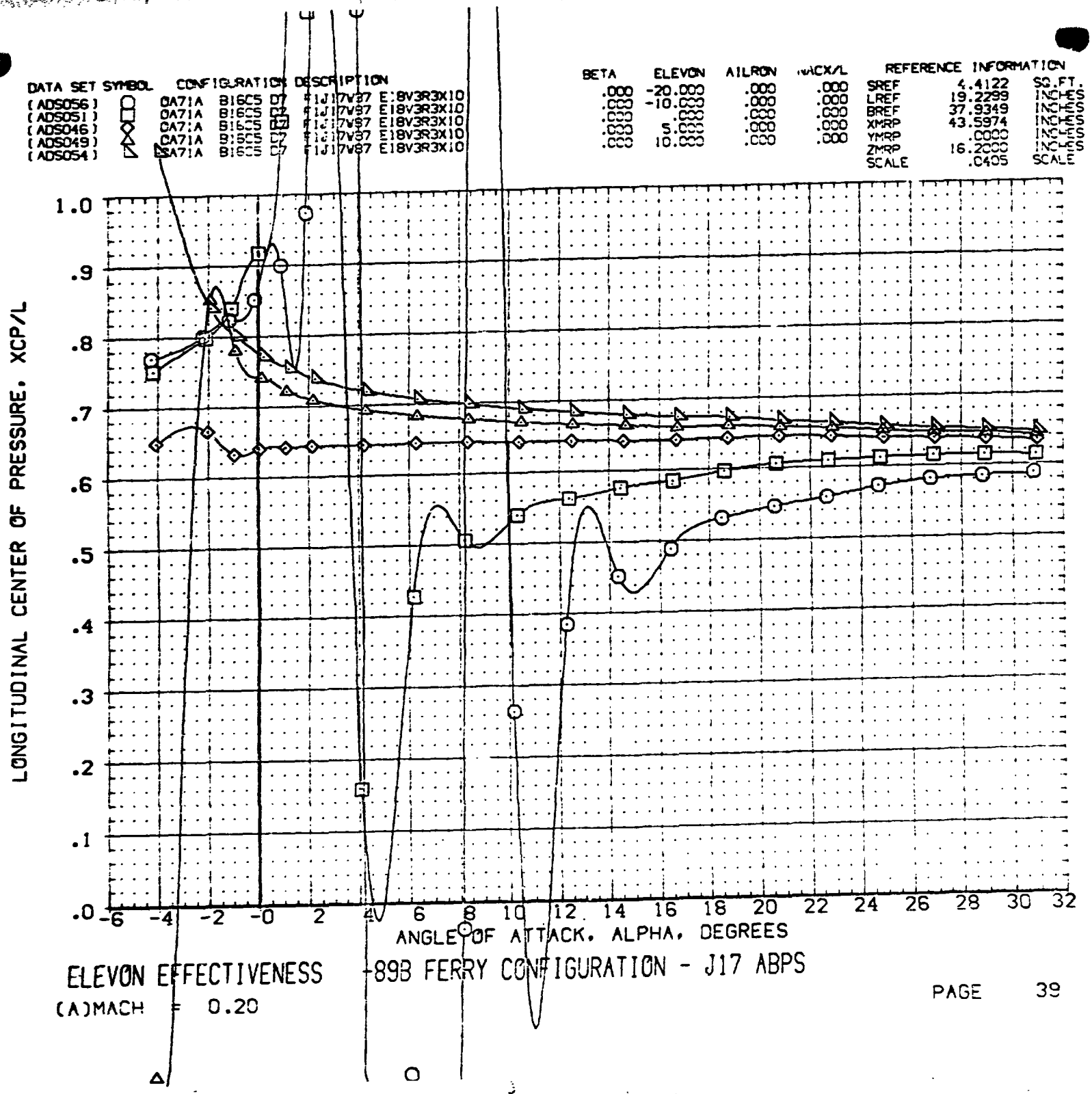
REFERENCE INFORMATION

SREF	4.4122	SQ.FT.
LREF	19.2298	INCHES
BREF	37.9349	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.2405	SCALE



ELEVON EFFECTIVENESS -89B FERRY CONFIGURATION - J17 ABPS

(A)MACH = 0.20



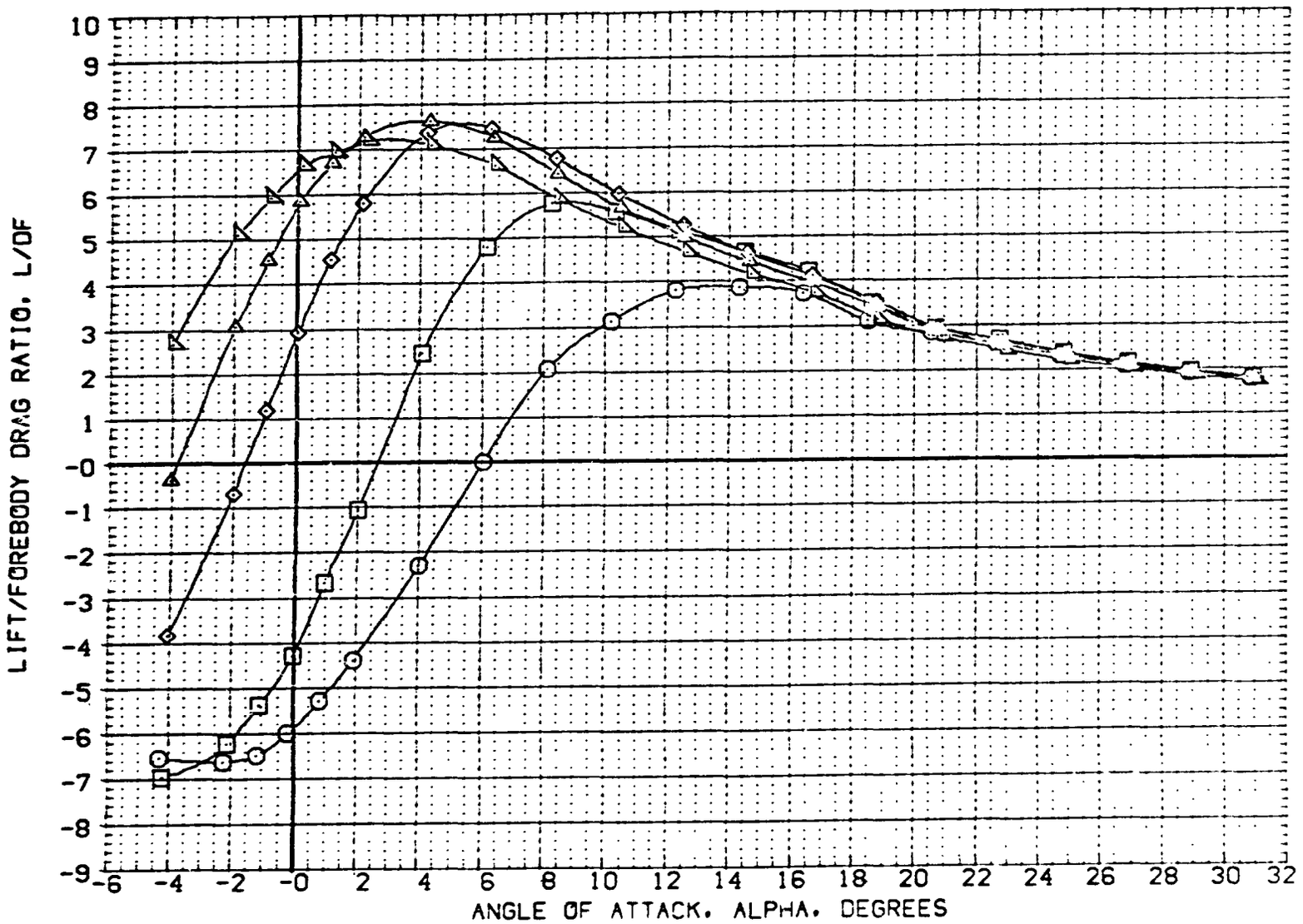
ELEVON EFFECTIVENESS -89B FERRY CONFIGURATION - J17 ABPS

(A)MACH = 0.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(ADS056)	□	CA71A B16C5 07 F1J17V87 E18V3R3X10
(ADS051)	△	CA71A B16C5 07 F1J17V87 E18V3R3X10
(ADS046)	◇	CA71A B16C5 07 F1J17V87 E18V3R3X10
(ADS049)	▽	CA71A B16C5 07 F1J17V87 E18V3R3X10
(ADS054)	▷	CA71A B16C5 07 F1J17V87 E18V3R3X10

BETA	ELEVON	AILRON	NACX/L
.000	-20.000	.000	.000
.000	-10.000	.000	.000
.000	.000	.000	.000
.000	5.000	.000	.000
.000	10.000	.000	.000

REFERENCE INFORMATION		
SREF	4.4122	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9349	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0400	SCALE

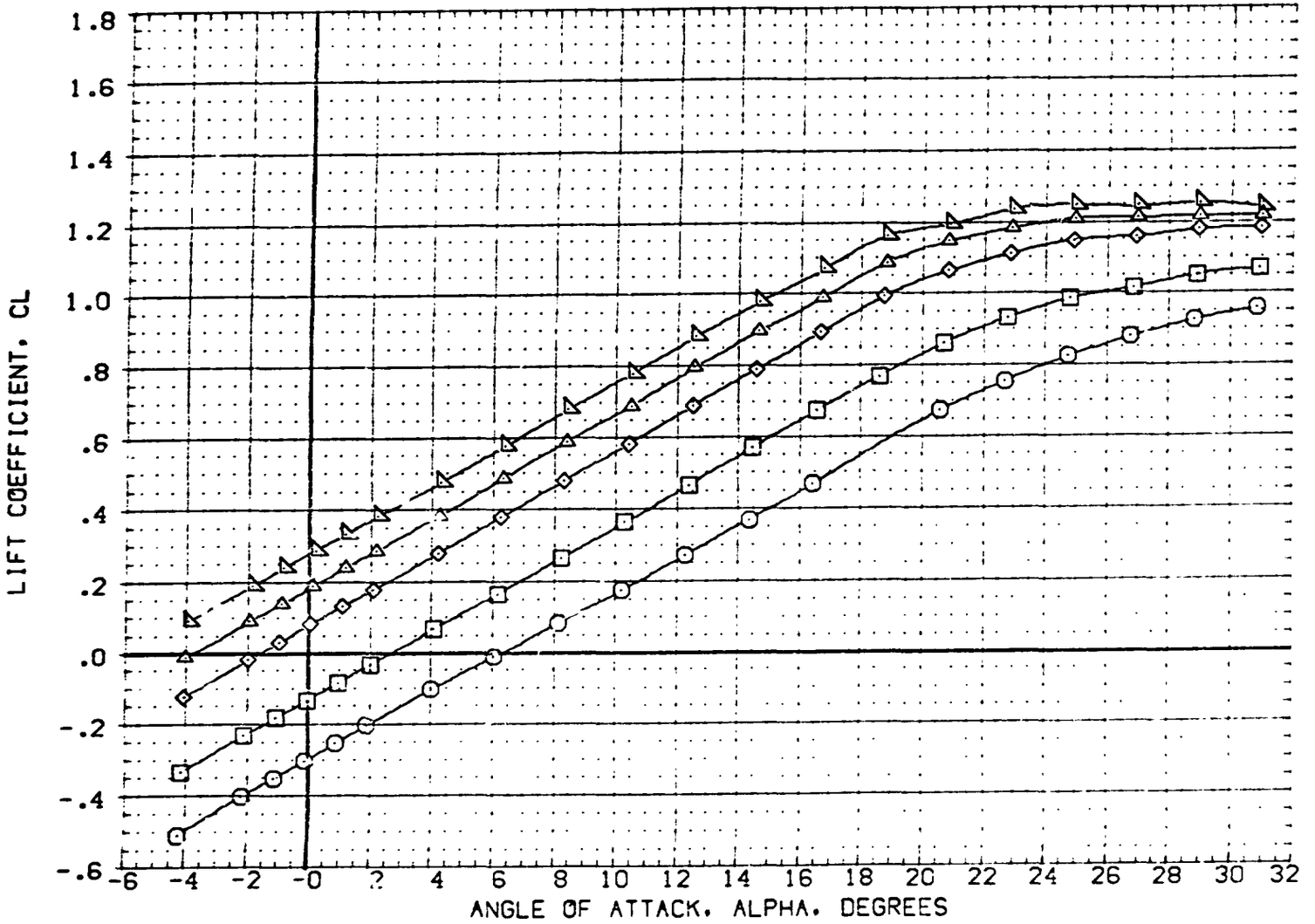


ELEVON EFFECTIVENESS -89B FERRY CONFIGURATION - J17 ABPS

(A)MACH = 0.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	AILRON	NACX/L
(ADS037)		CA71A B16C5 D7 F1J17W87 E18V3R3X10	.000	-20.000	.000	.200
(ADS040)		CA71A B16C5 D7 F1J17W87 E18V3R3X10	.000	-10.000	.000	.200
(ADSC43)		CA71A B16C5 D7 F1J17W87 E18V3R3X10	.000	.000	.000	.200
(ADS042)		CA71A B16C5 D7 F1J17W87 E18V3R3X10	.000	5.000	.000	.200
(ADS038)		CA71A B16C5 D7 F1J17W87 E18V3R3X10	.000	10.000	.000	.200

REFERENCE INFORMATION		
SREF	4.4122	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9349	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.1105	SCALE



ELEVON EFFECTIVENESS -89B FERRY CONFIGURATION - J17 ABPS MOVED AFT

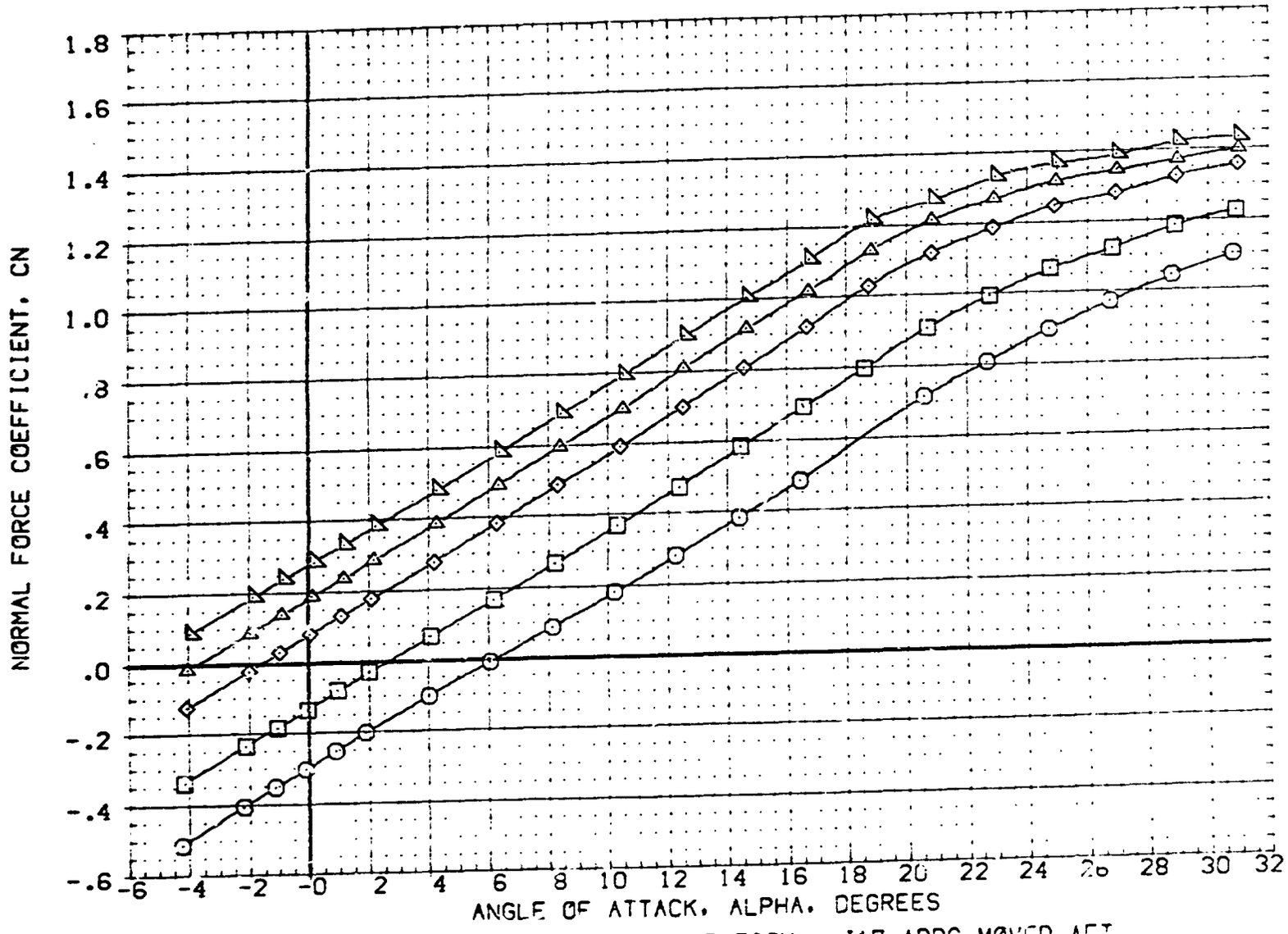
(A)MACH = 0.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(ADS037)	△	CA7:A B16C5 D7 F1J17V87 E18V3R3X10
(ADS040)	□	CA7:A B16C5 D7 F1J17V87 E18V3R3X10
(ADS043)	◇	CA7:A B16C5 D7 F1J17V87 E18V3R3X10
(ADS042)	▽	CA7:A B16C5 D7 F1J17V87 E18V3R3X10
(ADS038)	⊲	CA7:A B16C5 D7 F1J17V87 E18V3R3X10

BETA	ELEVON	AILRON	NACX/L
.000	-20.000	.000	.200
.000	-10.000	.000	.200
.000	.000	.000	.200
.000	5.000	.000	.200
.000	10.000	.000	.200

REFERENCE INFORMATION

SREF	4 4122	SQ.FT.
LREF	19.2288	INCHES
BREF	37.8848	INCHES
XMRP	43.5874	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

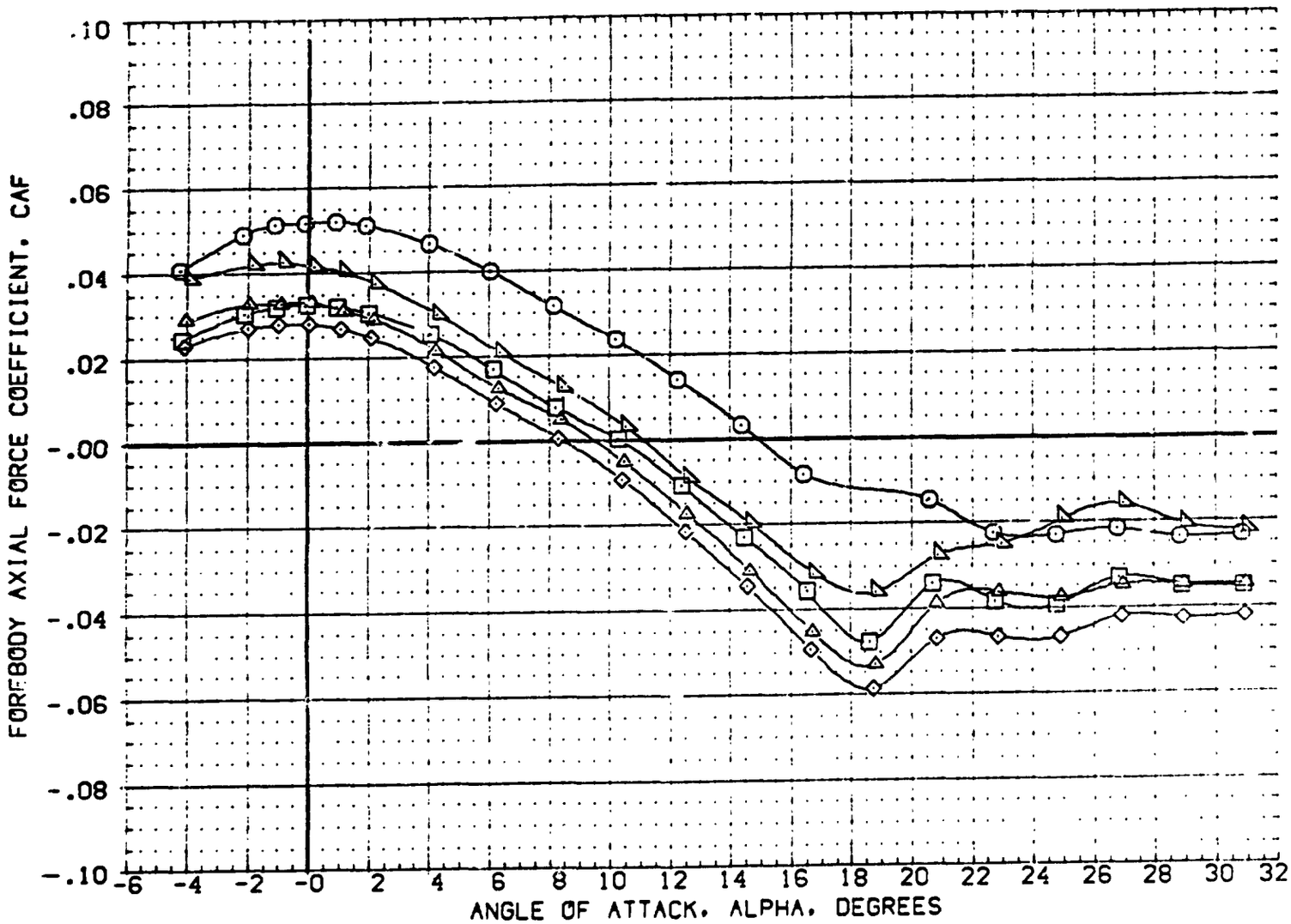


ELEVON EFFECTIVENESS -89B FERRY CONFIGURATION - J17 ABPS MOVED AFT

(A)MACH = 0.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVCN	AILRON	NACX/L
(ADS037)		OA71A B16C5 D7 F1J17V87 E18V3R3X10	.000	-20.000	.000	.200
(ADS040)		OA71A B16C5 D7 F1J17V87 E18V3R3X10	.000	-10.000	.000	.200
(ADS043)		OA71A B16C5 D7 F1J17V87 E18V3R3X10	.000	.000	.000	.200
(ADS042)		OA71A B16C5 D7 F1J17V87 E18V3R3X10	.000	5.000	.000	.200
(ADS038)		OA71A B16C5 D7 F1J17V87 E18V3R3X10	.000	10.000	.000	.200

REFERENCE INFORMATION		
SREF	4.4122	SQ.FT.
LREF	19.2289	INCHES
BREF	37.8349	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE



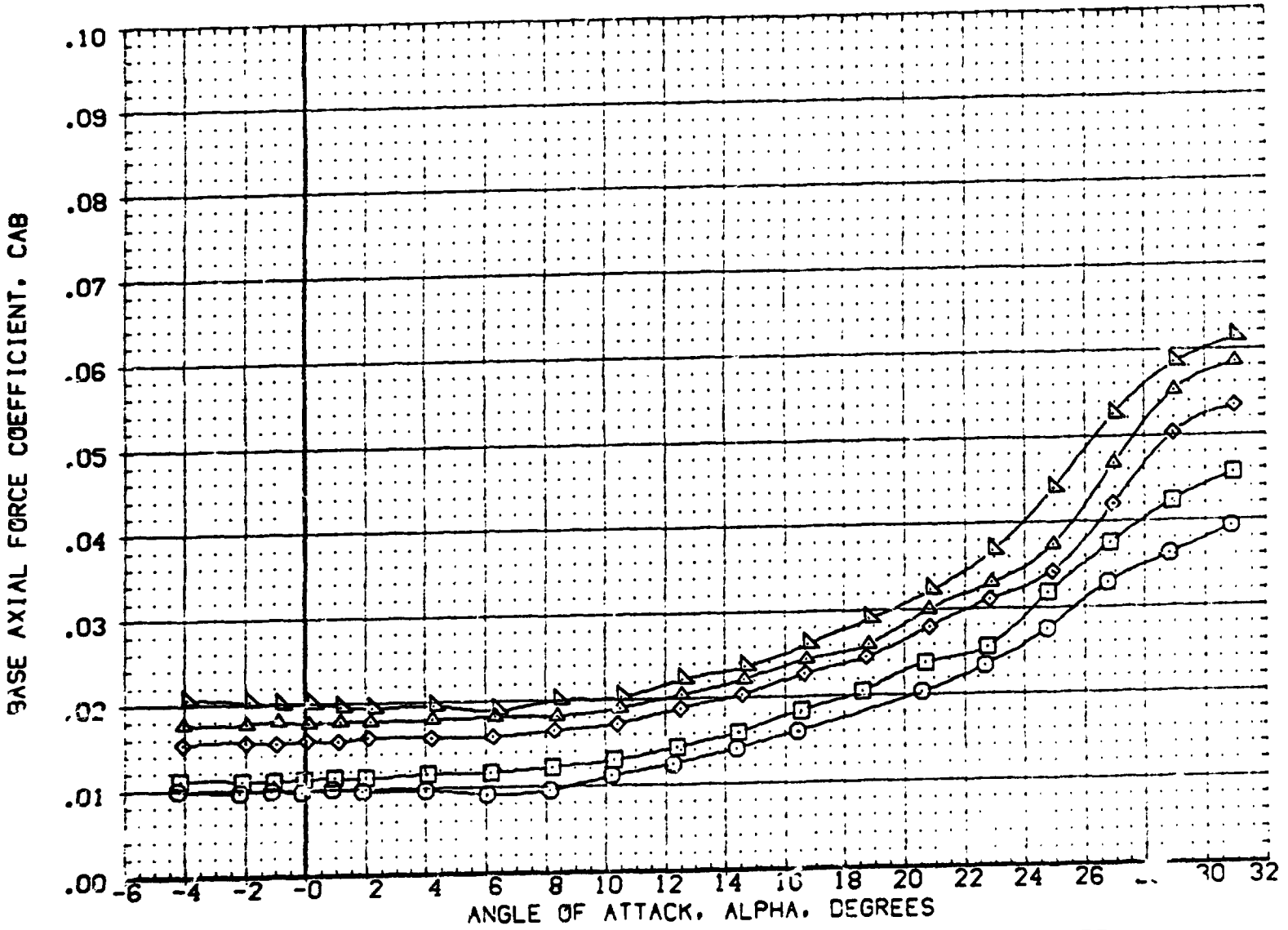
ELEVON EFFECTIVENESS -89B FERRY CONFIGURATION - J17 ABPS MOVED AFT

(A)MACH = 0.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(ADS037)	○	0A71A B16C5 07 F1J17V87 E18V3R3X10
(ADS040)	□	0A71A B16C5 07 F1J17V87 E18V3R3X10
(ADS043)	◇	0A71A B16C5 07 F1J17V87 E18V3R3X10
(ADS042)	△	0A71A B16C5 07 F1J17V87 E18V3R3X10
(ADS038)	▷	0A71A B16C5 07 F1J17V87 E18V3R3X10

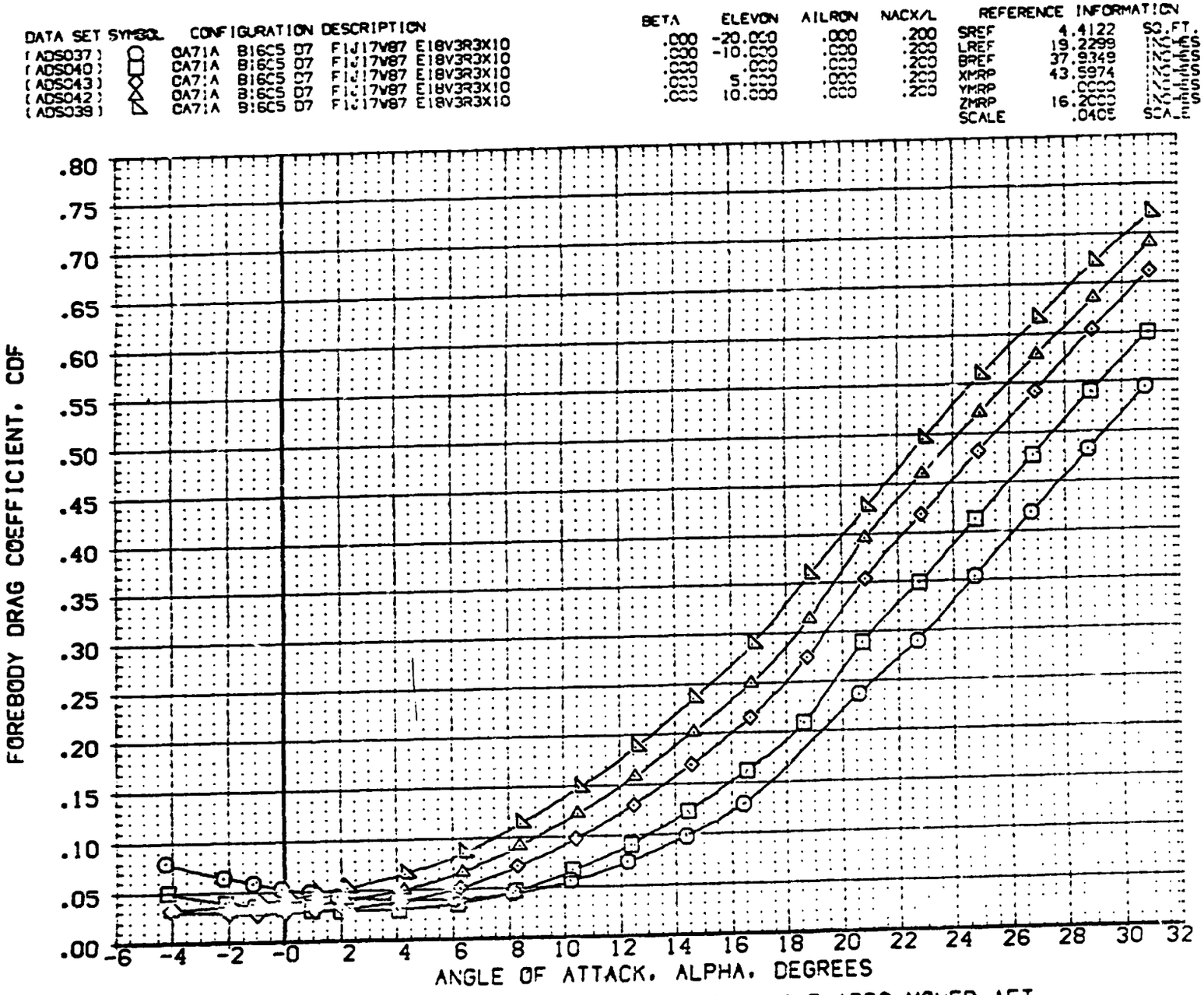
BETA	ELEVON	AILRON	NACX/L
.000	-20.000	.000	.200
.000	-10.000	.000	.200
.000	0.	.000	.200
.000	10.000	.000	.200
.000	20.000	.000	.200

REFERENCE INFORMATION		
SREF	4.4122	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9349	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE



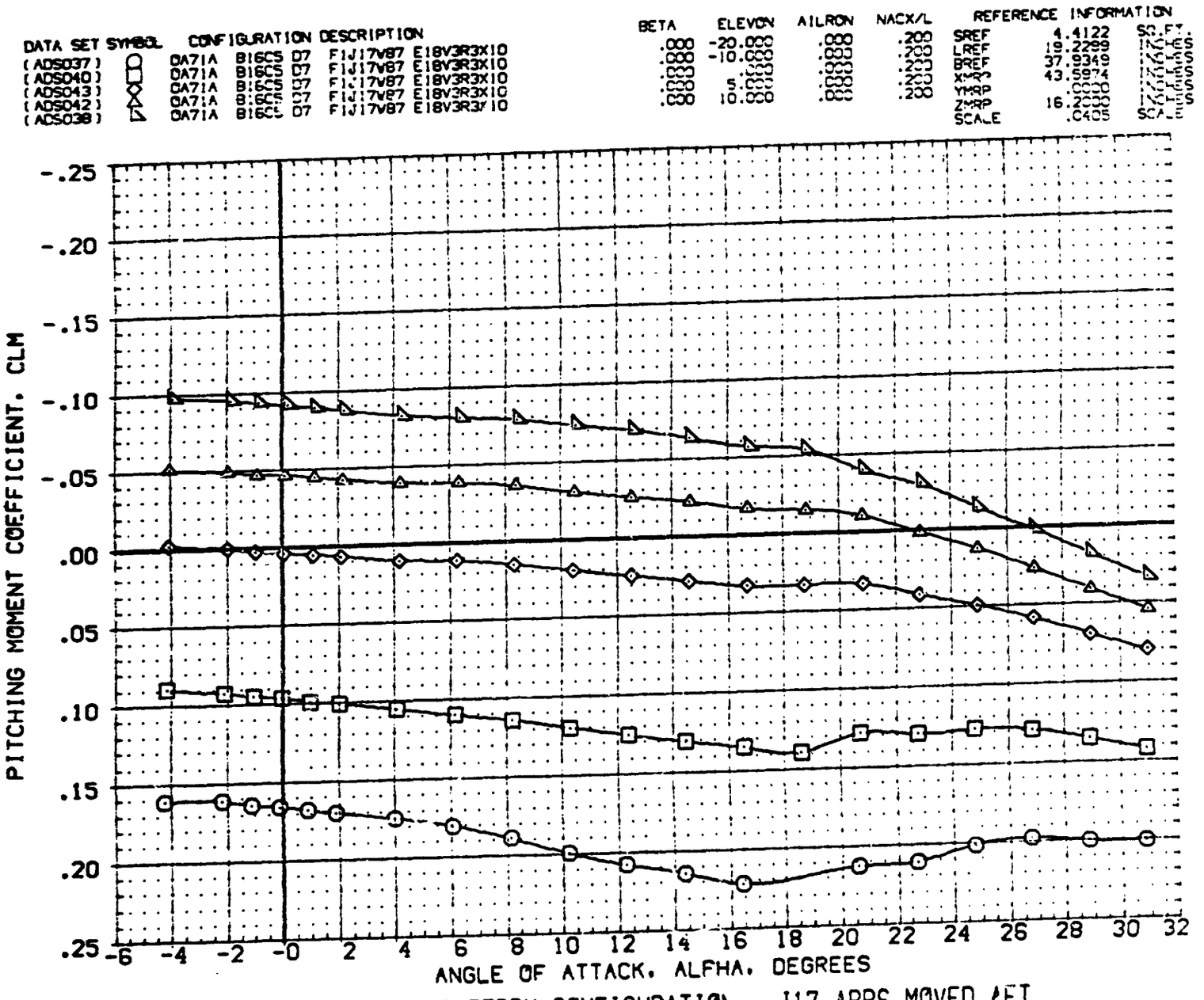
ELEVON EFFECTIVENESS -89B FERRY CONFIGURATION - J17 ABPS MOVED AFT

(A)MACH = 0.20



ELEVON EFFECTIVENESS -89B FERRY CONFIGURATION - J17 ABPS MOVED AFT

(A)MACH = 0.20

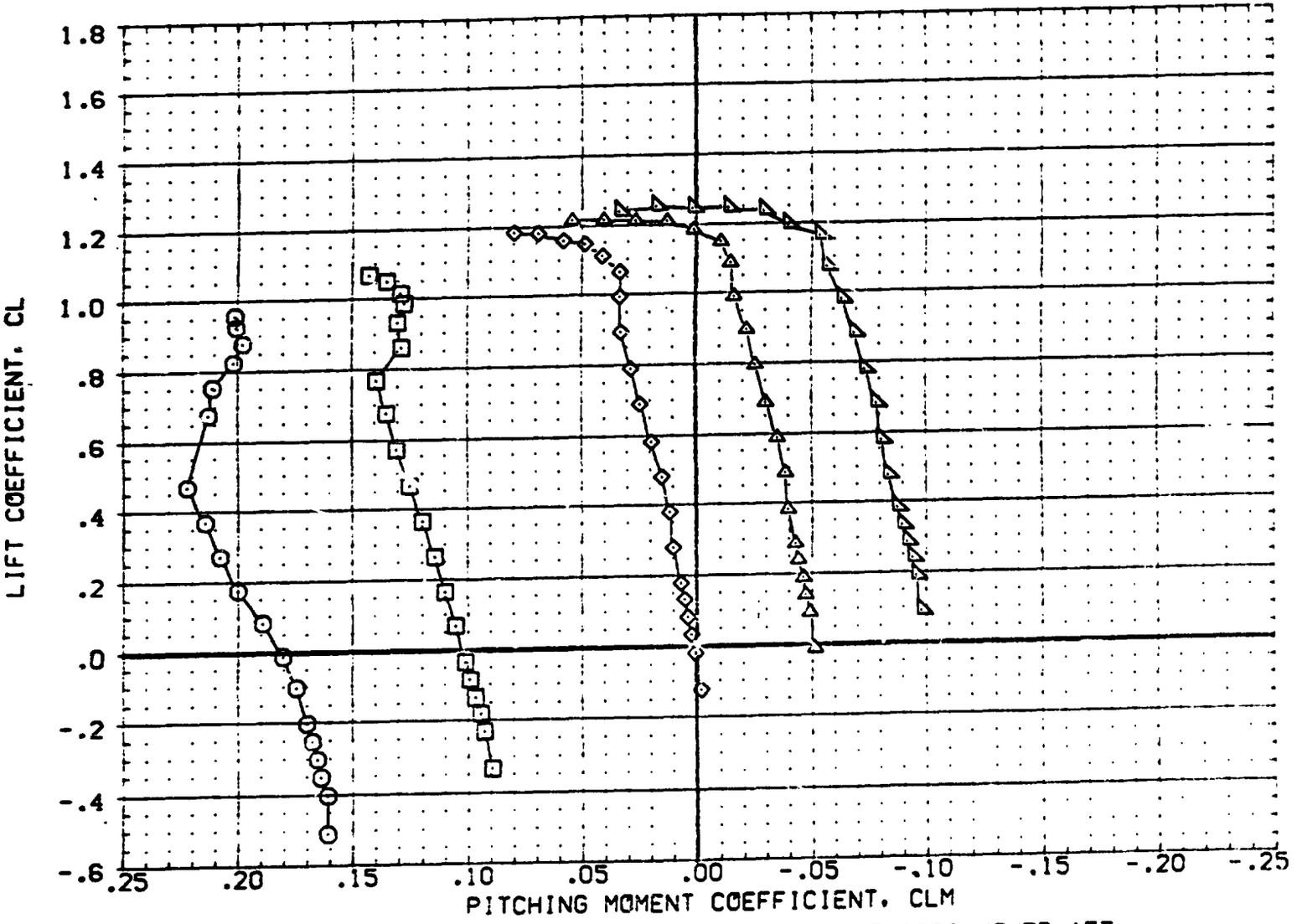


ELEVON EFFECTIVENESS -89B FERRY CONFIGURATION - J17 ABPS MOVED AFT

(A)MACH = 0.20

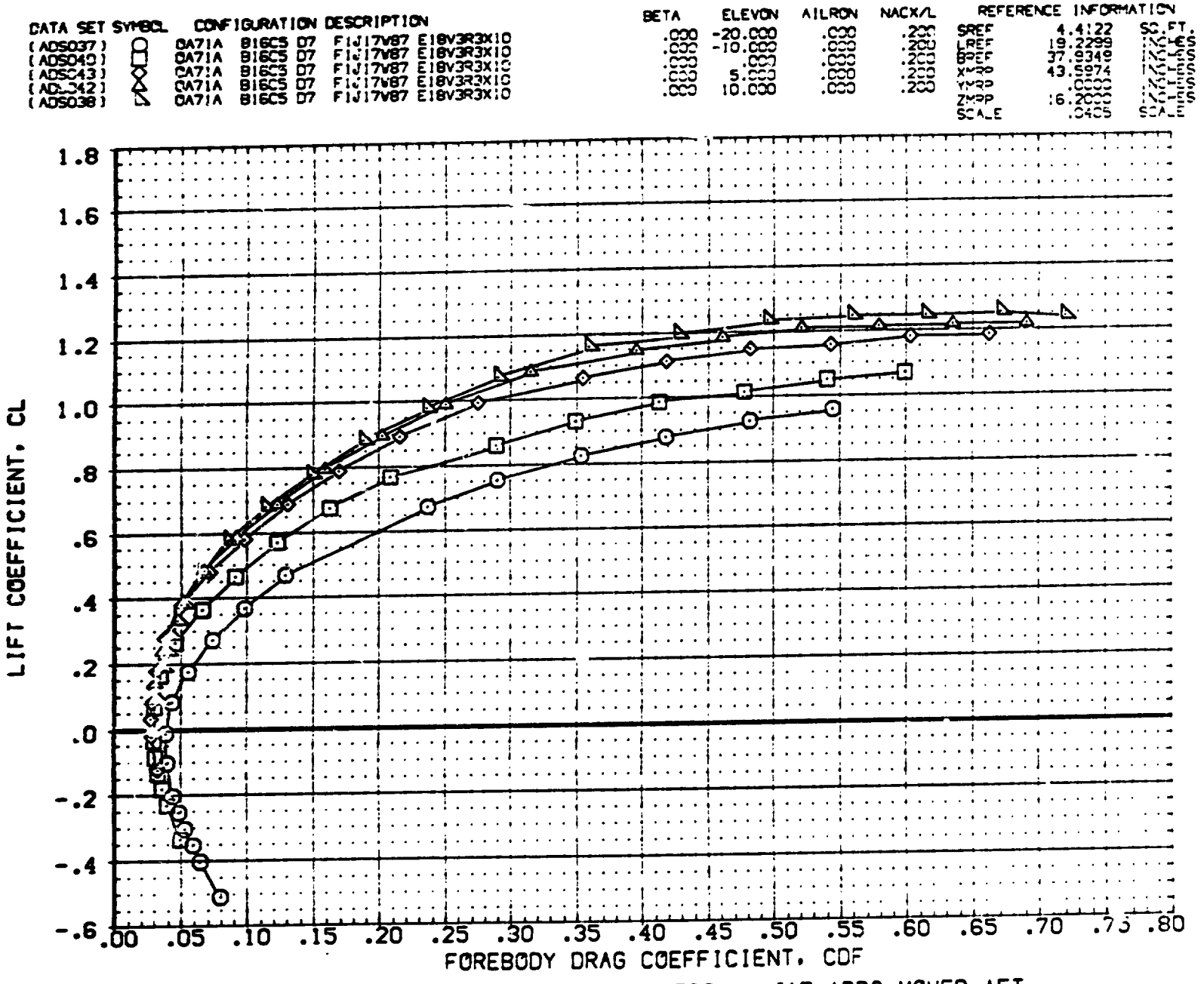
DATA SET	SYMBOL	CONFIGURATION	DESCRIPTION	BETA	ELEVON	AILRON	NACX/L
(ADS037)	□	0A71A B16C5 D7	F1J17V87 E18V3R3X10	.000	-20.000	.000	.200
(ADS040)	○	0A71A B16C5 D7	F1J17V87 E18V3R3X10	.000	-10.000	.000	.200
(ADS043)	◇	0A71A B16C5 D7	F1J17V87 E18V3R3X10	.000	.000	.000	.200
(ADS042)	⋈	0A71A B16C5 D7	F1J17V87 E18V3R3X10	.000	5.000	.000	.200
(ADS038)	△	0A71A B16C5 D7	F1J17V87 E18V3R3X10	.000	10.000	.000	.200

REFERENCE INFORMATION		
SREF	4.4122	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9349	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE



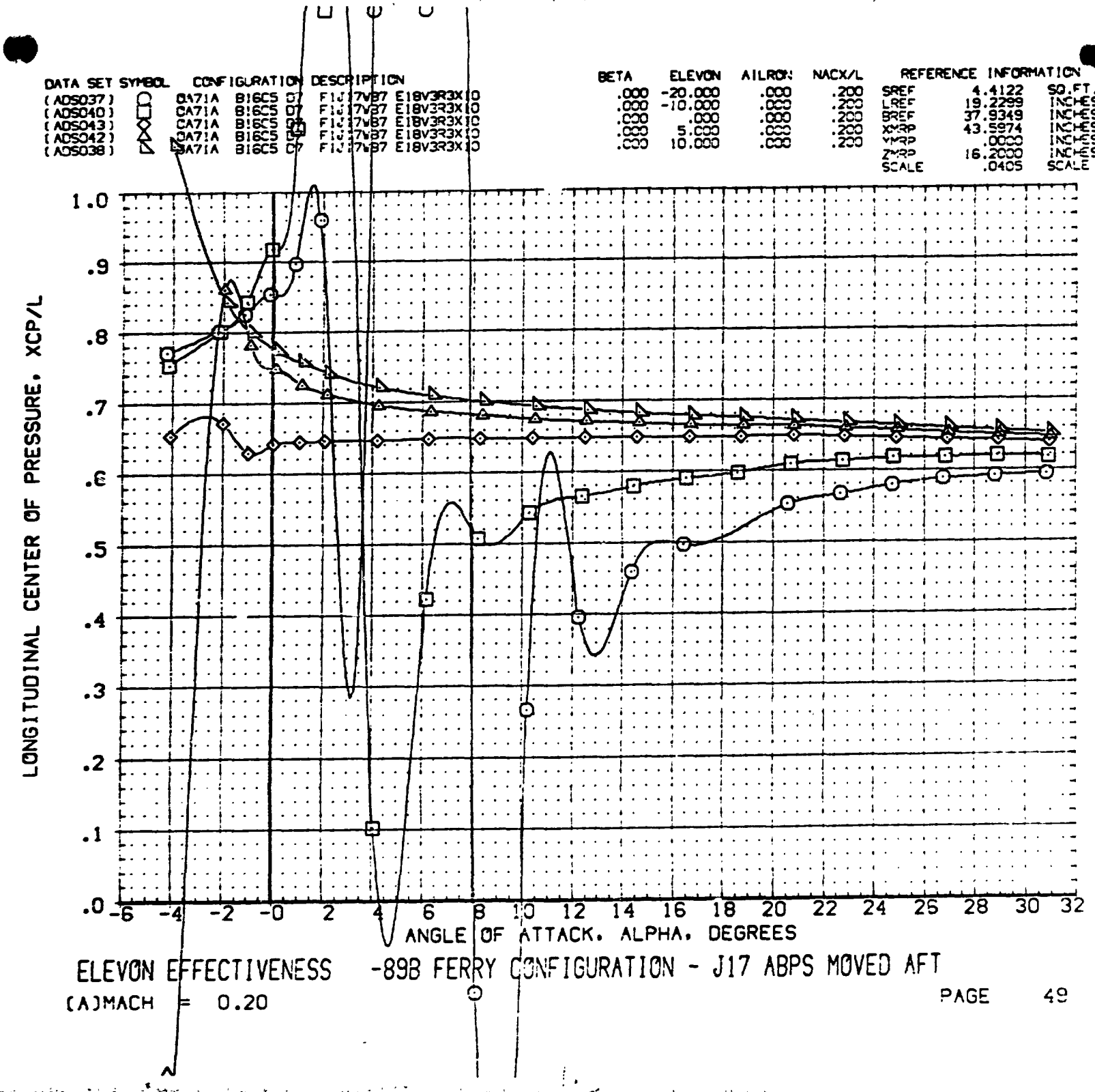
ELEVON EFFECTIVENESS -89B FERRY CONFIGURATION - J17 ABPS MOVED AFT

(A)MACH = 0.20



ELEVON EFFECTIVENESS -89B FERRY CONFIGURATION - J17 ABPS MOVED AFT

(A)MACH = 0.20

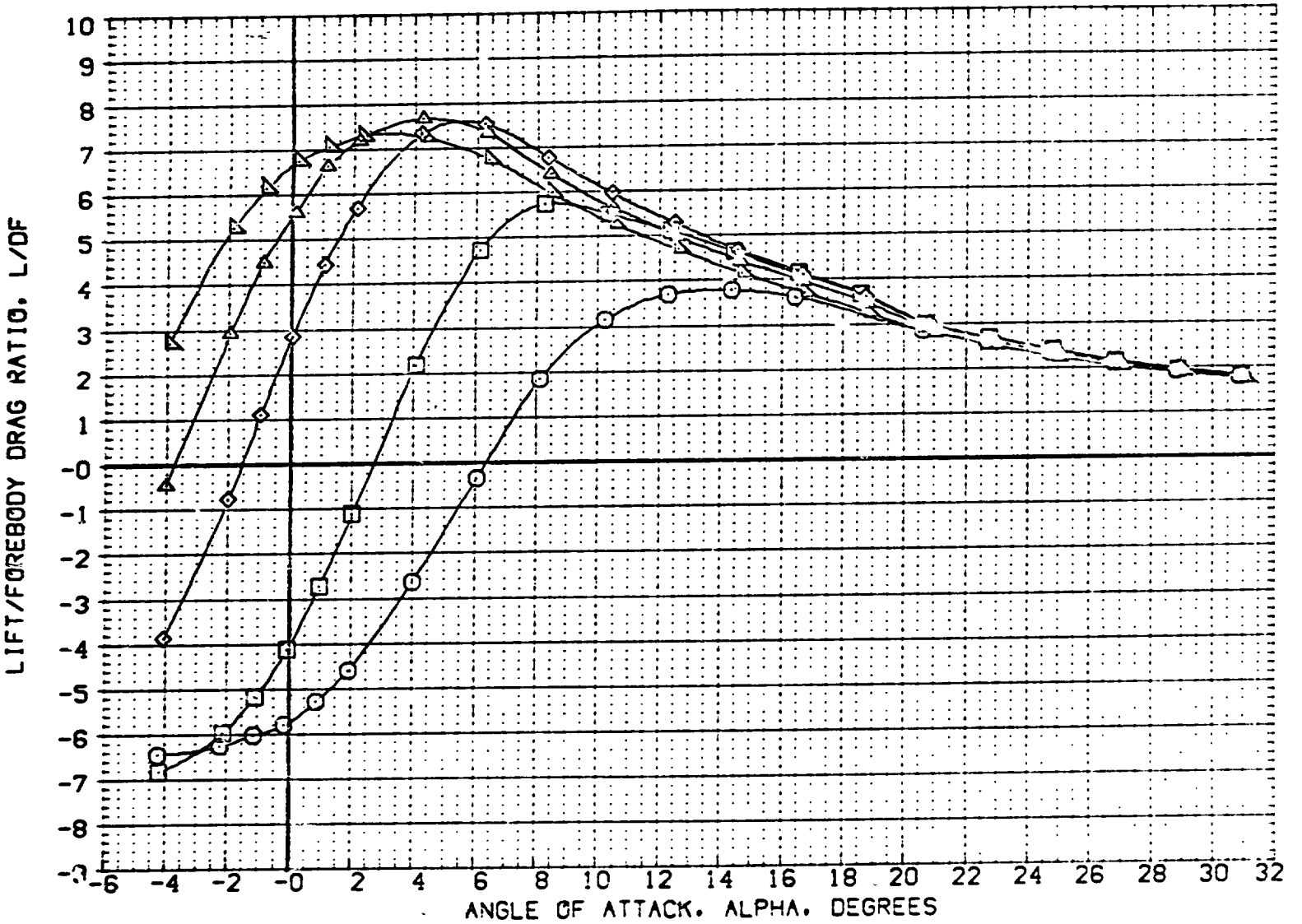


ELEVON EFFECTIVENESS -89B FERRY CONFIGURATION - J17 ABPS MOVED AFT

(A)MACH = 0.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	AILRON	NACX/L
(ADS037)		CA7:A B16C5 D7 F1J17V87 E18V3R3X10	.000	-20.000	.000	.200
(ADS040)		CA7:A B16C5 D7 F1J17V87 E18V3R3X10	.000	-10.000	.000	.200
(ADS043)		CA7:A B16C5 D7 F1J17V87 E18V3R3X10	.000	.000	.000	.200
(ADS042)		CA7:A B16C5 D7 F1J17V87 E18V3R3X10	.000	5.000	.000	.200
(ADS038)		CA7:A B16C5 D7 F1J17V87 E18V3R3X10	.000	10.000	.000	.200

REFERENCE INFORMATION		
SREF	4.4122	SQ.FT.
BREF	9.2299	INCHES
BR/2	37.6349	INCHES
XMRP	43.8874	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0400	SCALE



ELEVON EFFECTIVENESS -89B FERRY CONFIGURATION - J17 ABPS MOVED AFT

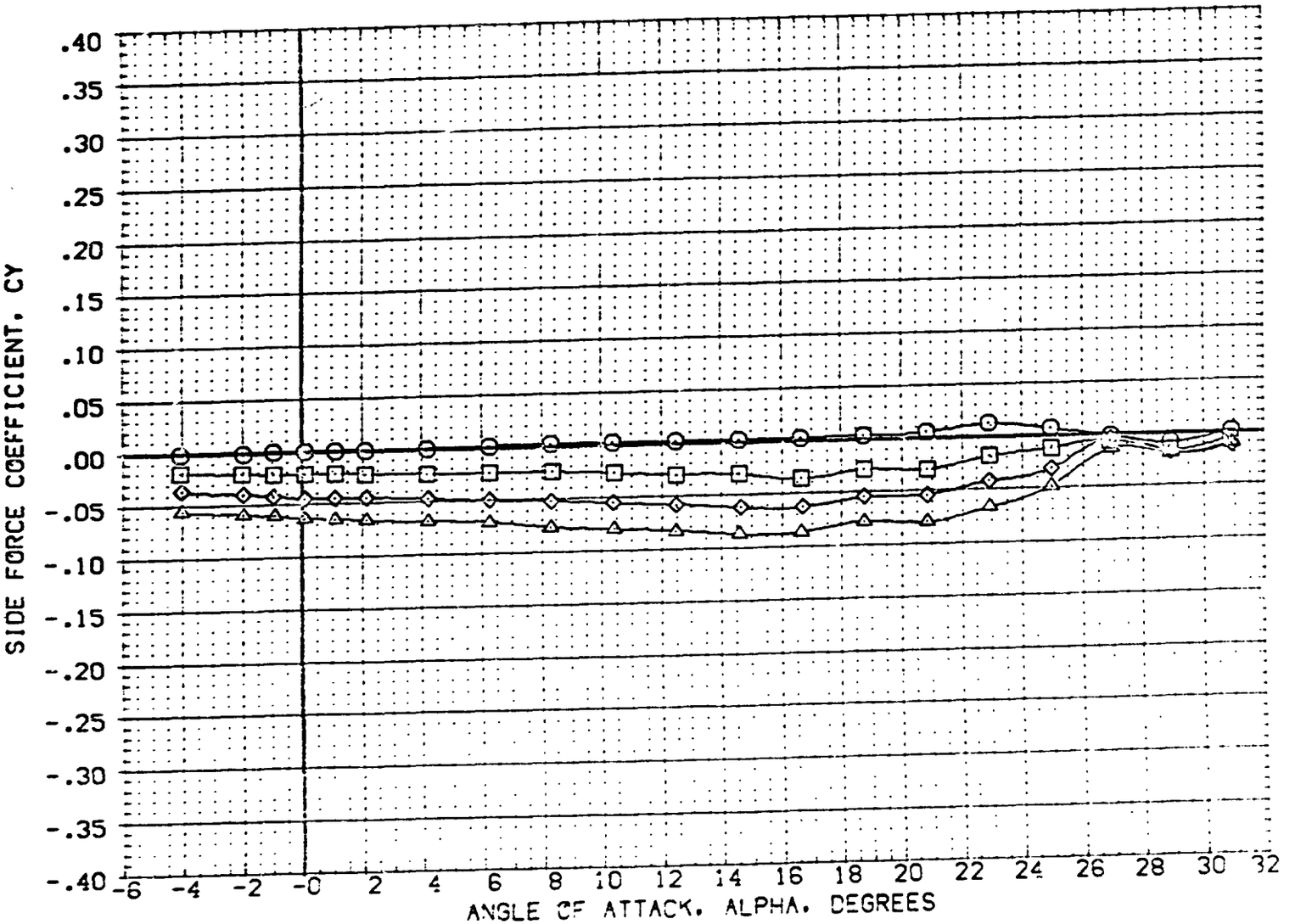
(A)MACH = 0.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RDS001)	○	CA71A B16C5 D7 F1 W87E18V3R3X9
(RDS005)	□	CA71A B16C5 D7 F1 W87E18V3R3X9
(RDS007)	⊠	CA71A B16C5 D7 F1 W87E18V3R3X9
(RDS010)	△	CA71A B16C5 D7 F1 W87E18V3R3X9

BETA	ELEVON	AILRON
.000	.000	.000
.000	.000	5.000
.000	.000	10.000
.000	.000	15.000

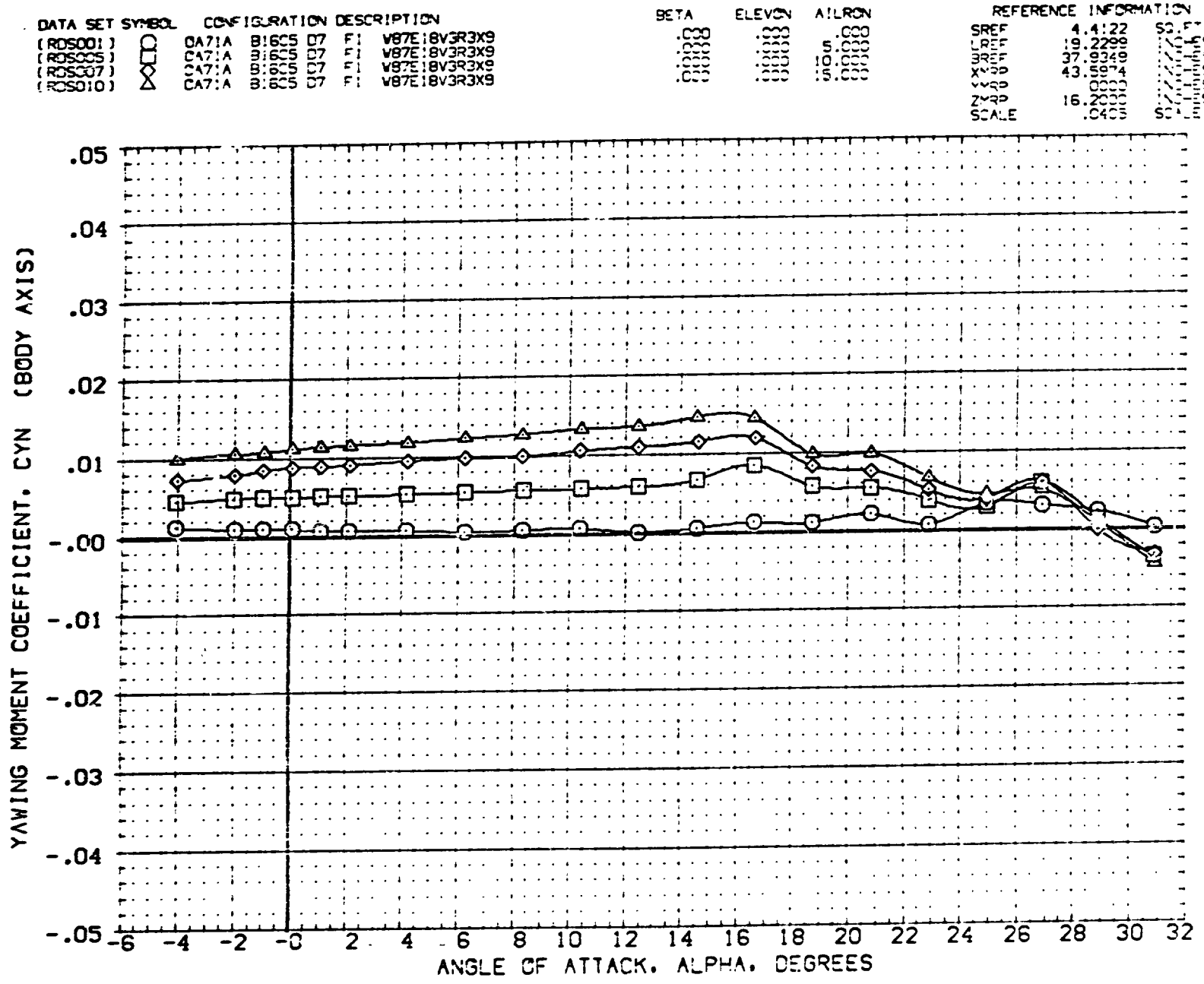
REFERENCE INFORMATION

SREF	4.4122	SQ.FT.
CREF	19.2298	INCHES
BREF	37.9349	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE



AILERON EFFECTIVENESS -89B FERRY CONFIGURATION - ABPS OFF

(A)MACH = 0.20



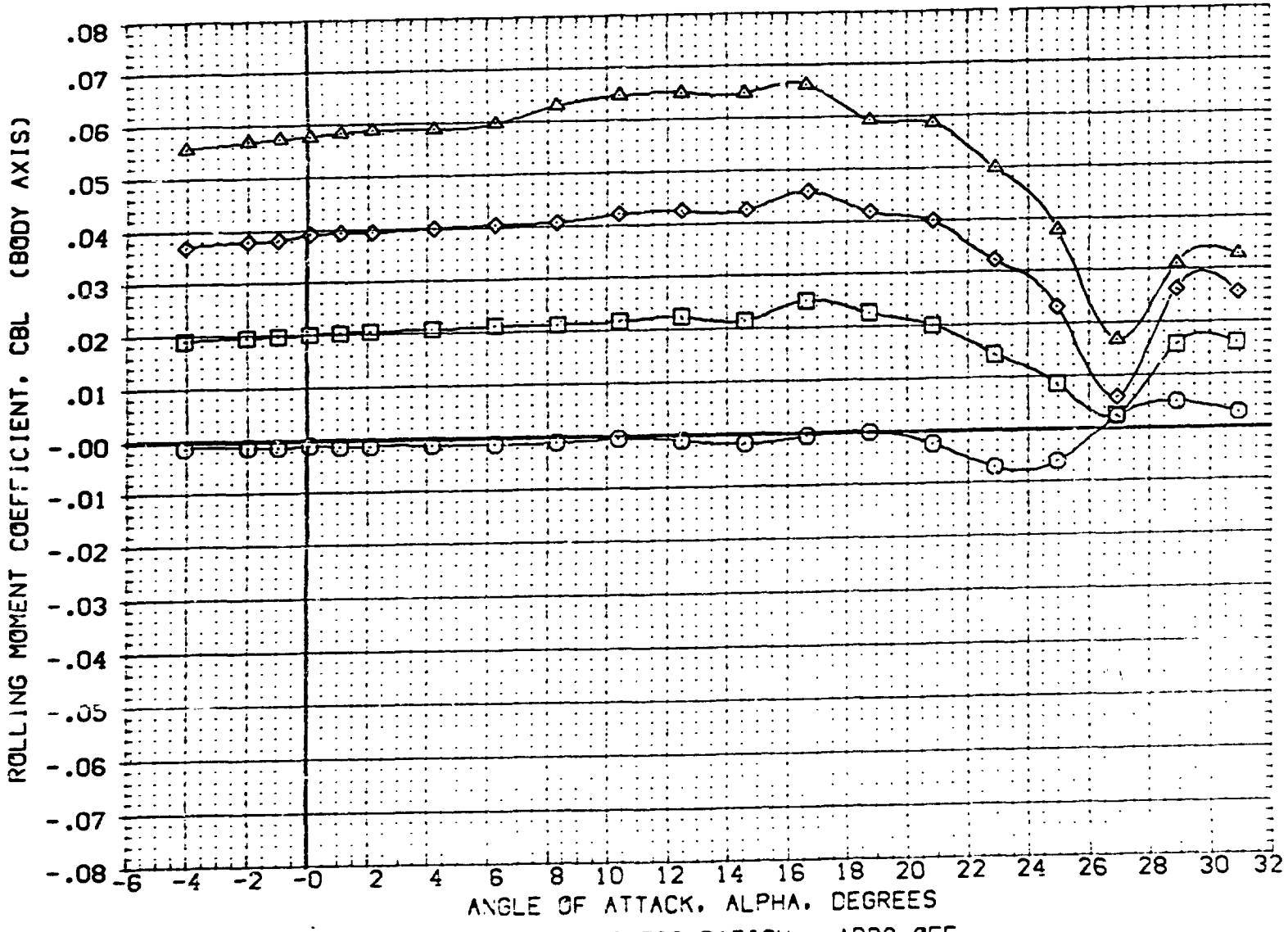
AILERON EFFECTIVENESS -89B FERRY CONFIGURATION - ABPS OFF

(A)MACH = 0.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	AILRON
(RDSC01)		CA7:A B16C5 D7 F1 W87E18V3R3X9	.000	.000	.000
(RDSC06)		CA7:A B16C5 D7 F1 W87E18V3R3X9	.000	.000	5.000
(RDSC07)		CA7:A B16C5 D7 F1 W87E18V3R3X9	.000	.000	10.000
(RDSC10)		CA7:A B16C5 D7 F1 W87E18V3R3X9	.000	.000	15.000

REFERENCE INFORMATION

SREF	4.4122	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9349	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE



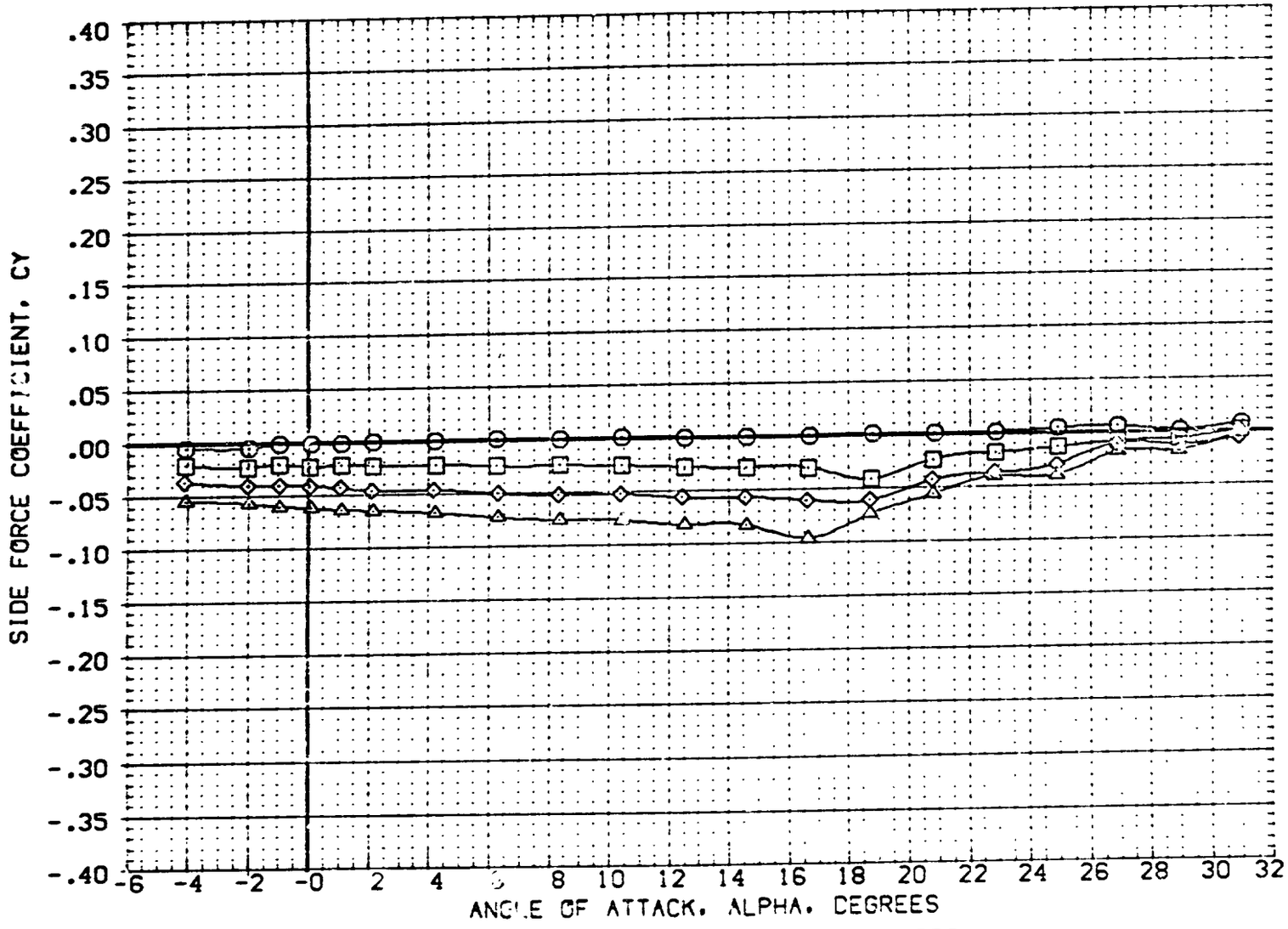
AILERON EFFECTIVENESS -89B FERRY CONFIGURATION - ABPS OFF

(A)MACH = 0.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RDS022)	□	CA71A B16C5 D7 F14J14V87 E18V3R3X10
(RDS016)	◇	CA71A B16C5 D7 F14J14V87 E18V3R3X10
(RDS014)	△	CA71A B16C5 D7 F14J14V87 E18V3R3X10
(RDS011)	⊠	CA71A B16C5 D7 F14J14V87 E18V3R3X10

BETA	ELEVON	AILRON	NACX/L
.0000	.0000	.0000	.0000
.0000	.0000	5.0000	.0000
.0000	.0000	10.0000	.0000
.0000	.0000	15.0000	.0000

REFERENCE INFORMATION		
SREF	4.4122	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9349	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE



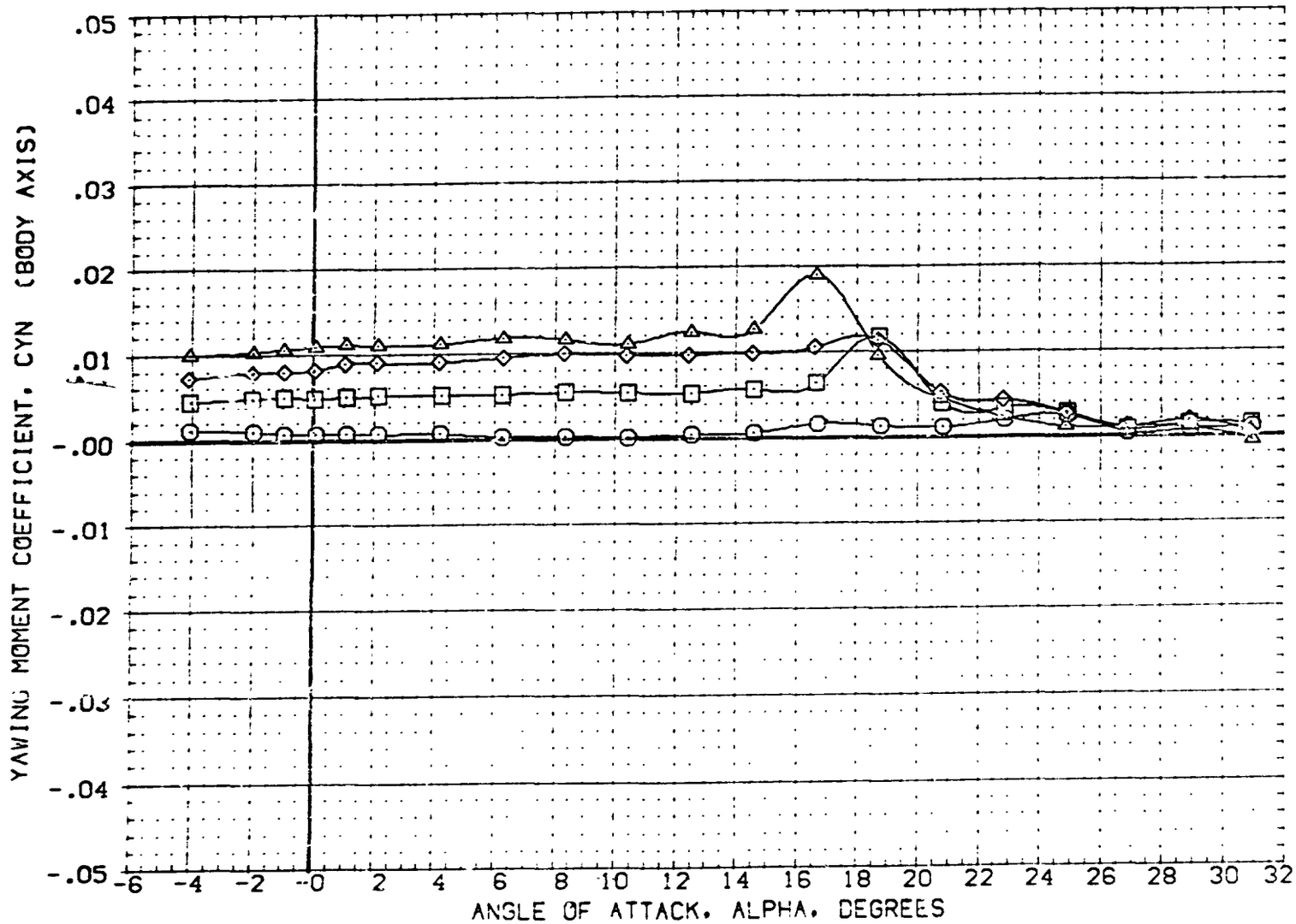
AILERON EFFECTIVENESS -89B FERRY CONFIGURATION - J14 ABPS

(A)MACH = 0.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(ROS022)	□	0A71A B16C5 D7 F1J14W87 E18V3R3X10
(ROS016)	◇	0A71A B16C5 D7 F1J14W87 E18V3R3X10
(ROSO14)	◇	0A71A B16C5 D7 F1J14W87 E18V3R3X10
(ROSO11)	△	0A71A B16C5 D7 F1J14W87 E18V3R3X10

BETA	ELEVON	AILRON	NACX/L
.000	.000	.000	.000
.000	.000	5.000	.000
.000	.000	10.000	.000
.000	.000	15.000	.000

REFERENCE INFORMATION		
SREF	4.4122	SQ.FT.
LREF	19.2288	INCHES
BREF	37.9349	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	15.2000	INCHES
SCALE	.0405	SCALE

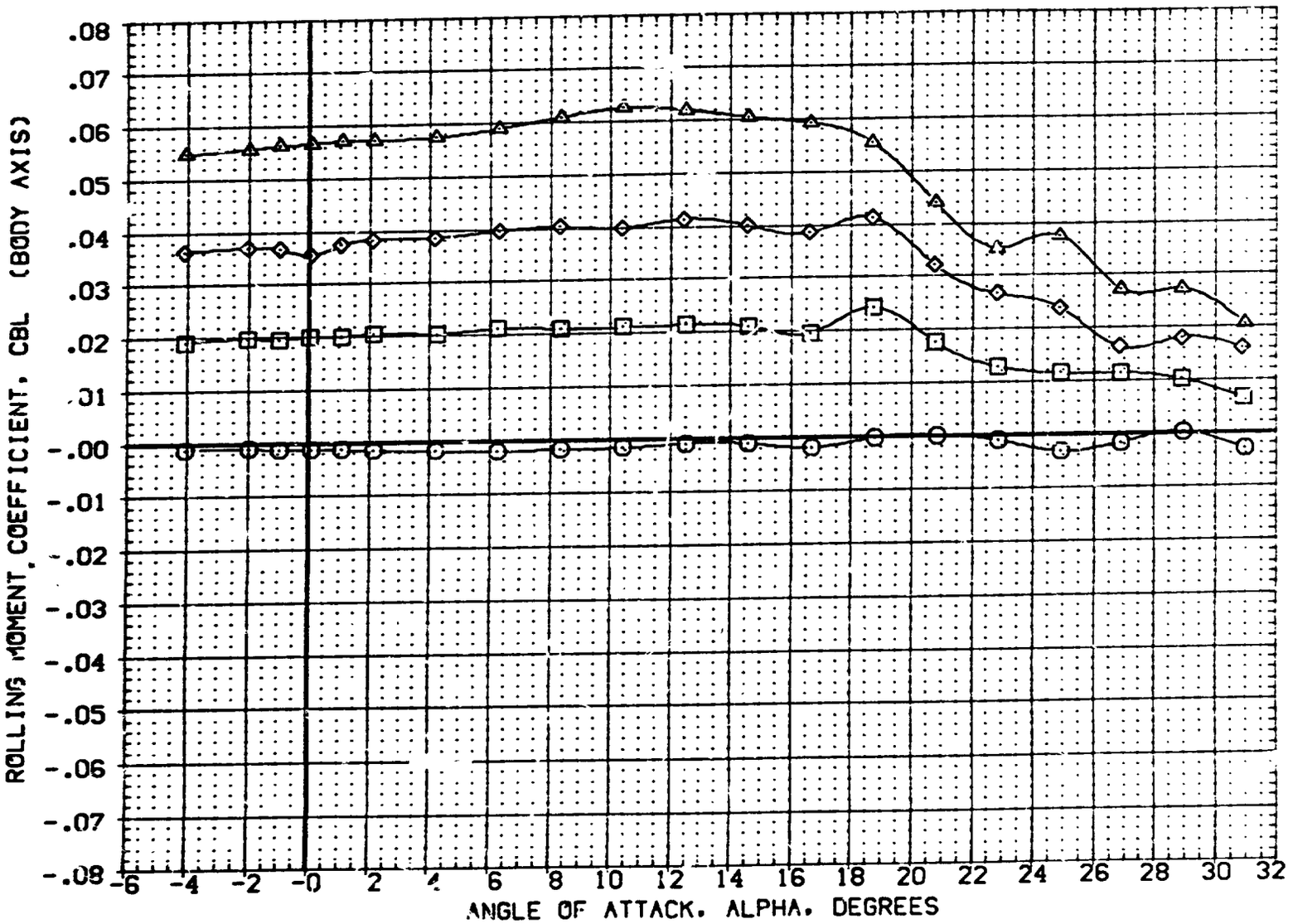


AILERON EFFECTIVENESS -999 FERRY CONFIGURATION - J14 ABPS

(A)MACH = 0.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	AILRON	NACX/L
(RDS022)	○	0A71A B16C5 07 F1J14V87 E18V3R3X10	.000	.000	.000	.000
(RDS016)	□	0A71A B16C5 07 F1J14V87 E18V3R3X10	.000	.000	5.000	.000
(RDS014)	◇	0A71A B16C5 07 F1J14V87 E18V3R3X10	.000	.000	10.000	.000
(RDS011)	△	0A71A B16C5 07 F1J14V87 E18V3R3X10	.000	.000	15.000	.000

REFERENCE INFORMATION		
SREF	4.4122	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9349	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

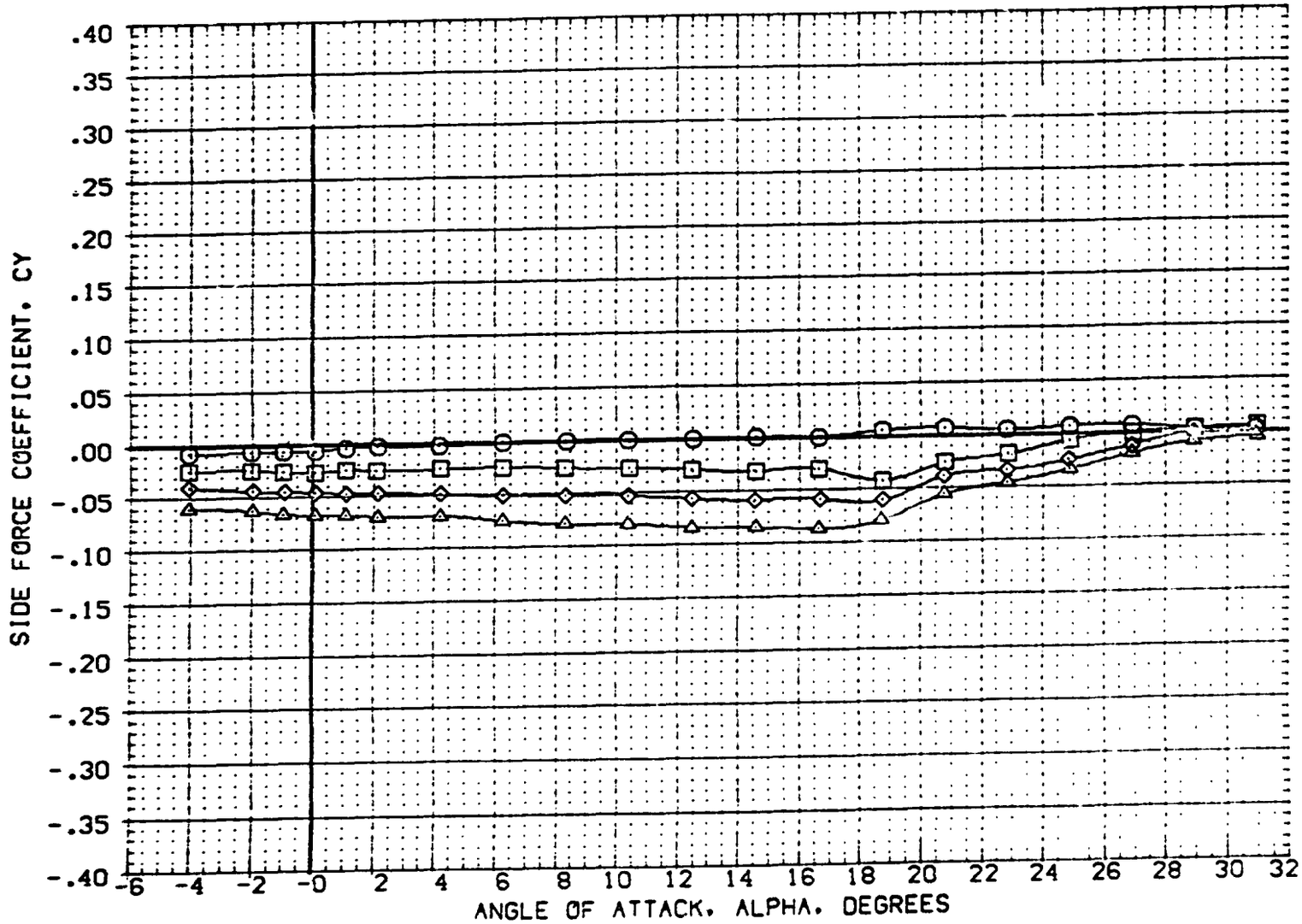


AILERON EFFECTIVENESS -89B FERRY CONFIGURATION - J14 ABPS

(A)MACH = 0.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	AILRON	NACX/L
(ROS023)	○	CA71A B16C5 D7 F1J14W87 E18V3R3X10	.000	.000	.000	.200
(ROS027)	□	CA71A B16C5 D7 F1J14W87 E18V3R3X10	.000	.000	5.000	.200
(ROS030)	⊠	CA71A B16C5 D7 F1J14W87 E18V3R3X10	.000	.000	10.000	.200
(ROS033)	△	CA71A B16C5 D7 F1J14W87 E18V3R3X10	.000	.000	15.000	.200

REFERENCE INFORMATION		
SREF	4.4122	SQ.FT.
CREF	19.2299	INCHES
BREF	37.9349	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE



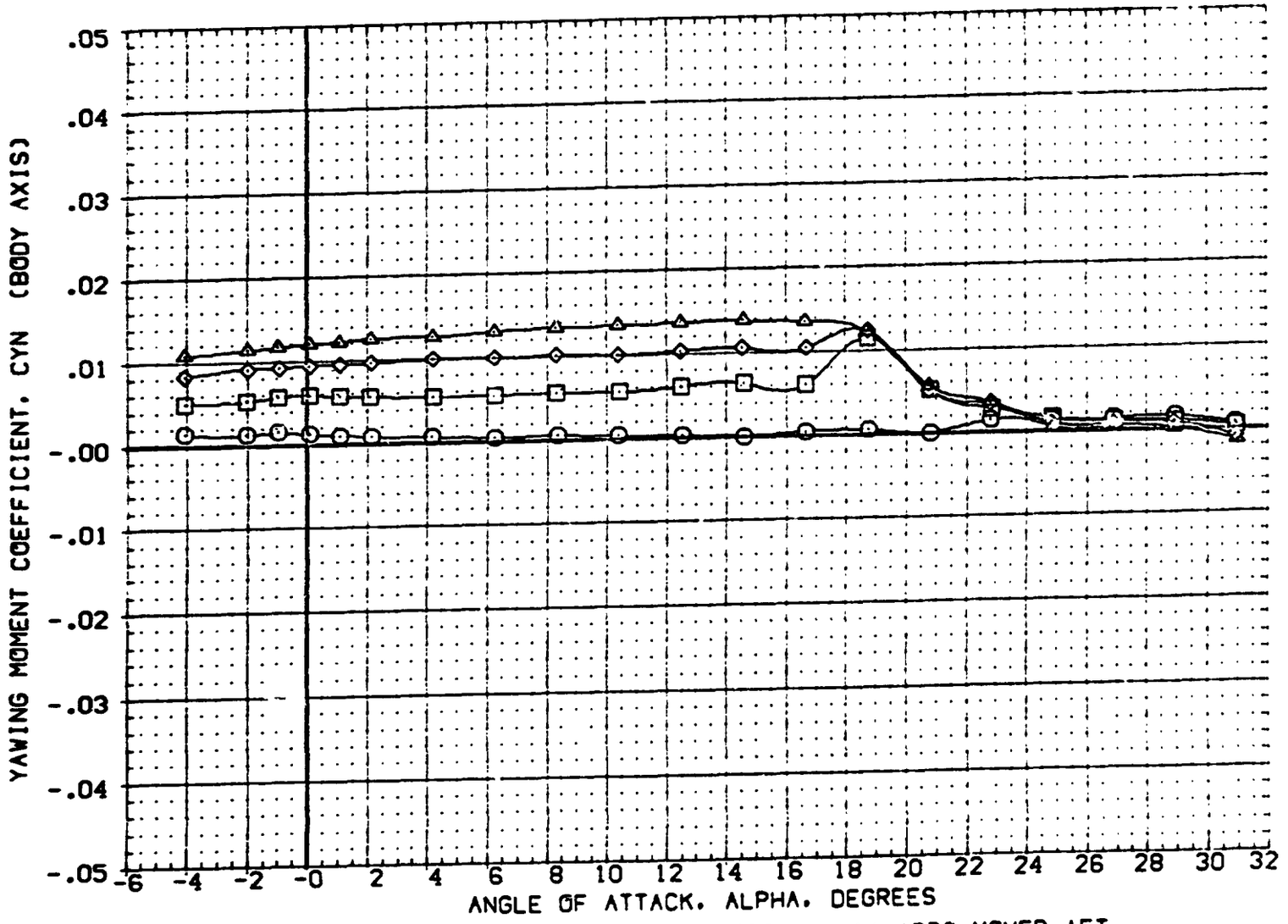
AILERON EFFECTIVENESS -89B FERRY CONFIGURATION - J14 ABPS MOVED AFT

(A)MACH = 0.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	AILRON	NACX/L
(RDS023)	○	0A71A B16C5 D7 F1J14V87 E18V3R3X10	.000	.000	.000	.200
(RDS027)	□	0A71A B16C5 D7 F1J14V87 E18V3R3X10	.000	.000	5.000	.200
(RDS030)	◇	0A71A B16C5 D7 F1J14V87 E18V3R3X10	.000	.000	10.000	.200
(RDS033)	△	0A71A B16C5 D7 F1J14V87 E18V3R3X10	.000	.000	15.000	.200

REFERENCE INFORMATION

SREF	4.4122	SQ.FT.
LREF	19.2200	FT.
BREF	37.9349	FT.
XMRP	43.5974	FT.
YMRP	.0000	FT.
ZMRP	6.2000	FT.
SCALE	.0400	SCALE

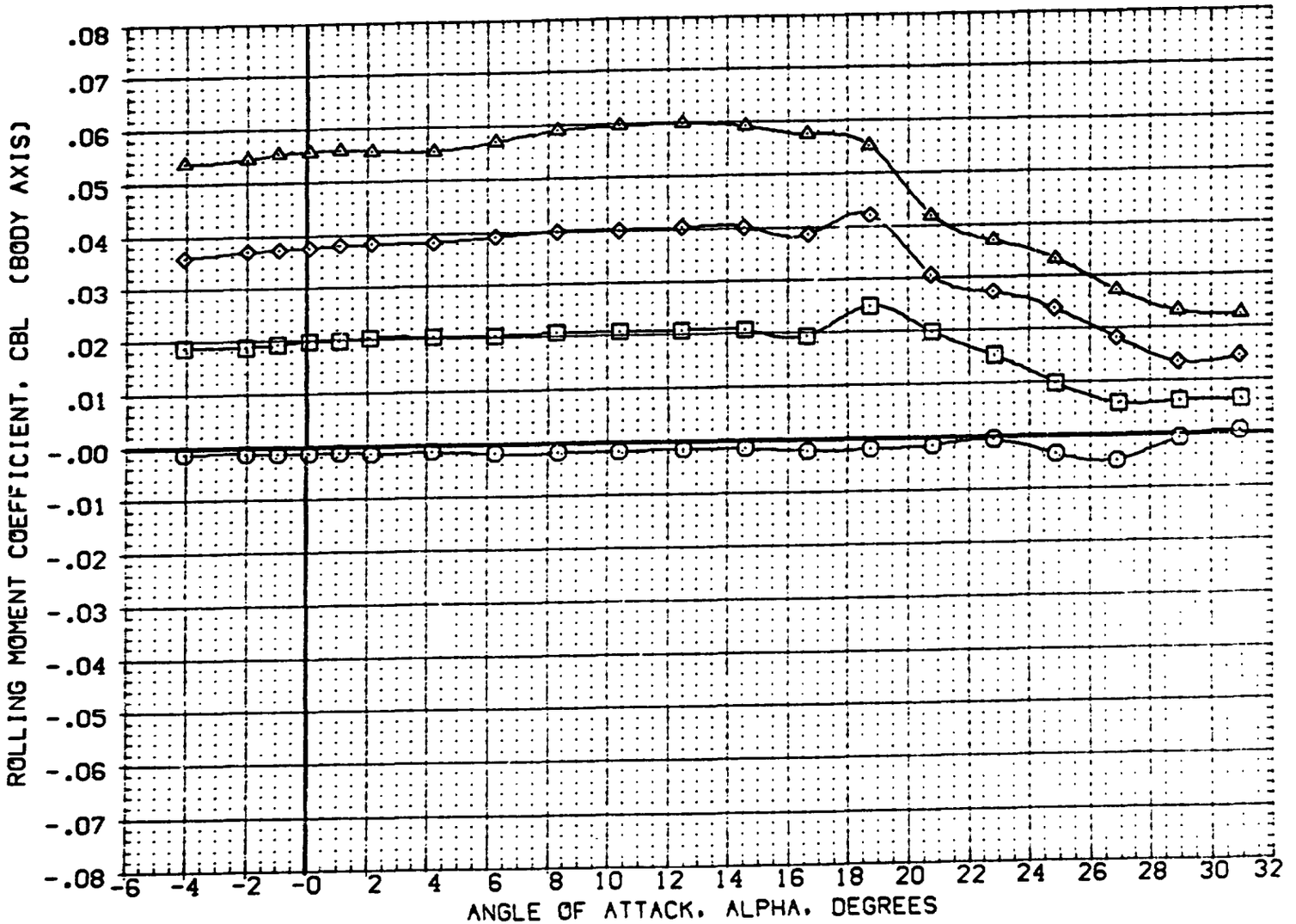


AILERON EFFECTIVENESS -89B FERRY CONFIGURATION - J14 ABPS MOVED AFT

(A)MACH = 0.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	AILRON	NACX/L
(RDS023)	○	CA71A B16C5 D7 F1J14V87 E18V3R3X10	.000	.000	.000	.200
(RDS027)	□	CA71A B16C5 D7 F1J14V87 E18V3R3X10	.000	.000	5.000	.200
(RDS030)	⊠	CA71A B16C5 D7 F1J14V87 E18V3R3X10	.000	.000	10.000	.200
(RDS033)	△	CA71A B16C5 D7 F1J14V87 E18V3R3X10	.000	.000	15.000	.200

REFERENCE INFORMATION		
SREF	4.4122	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9349	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

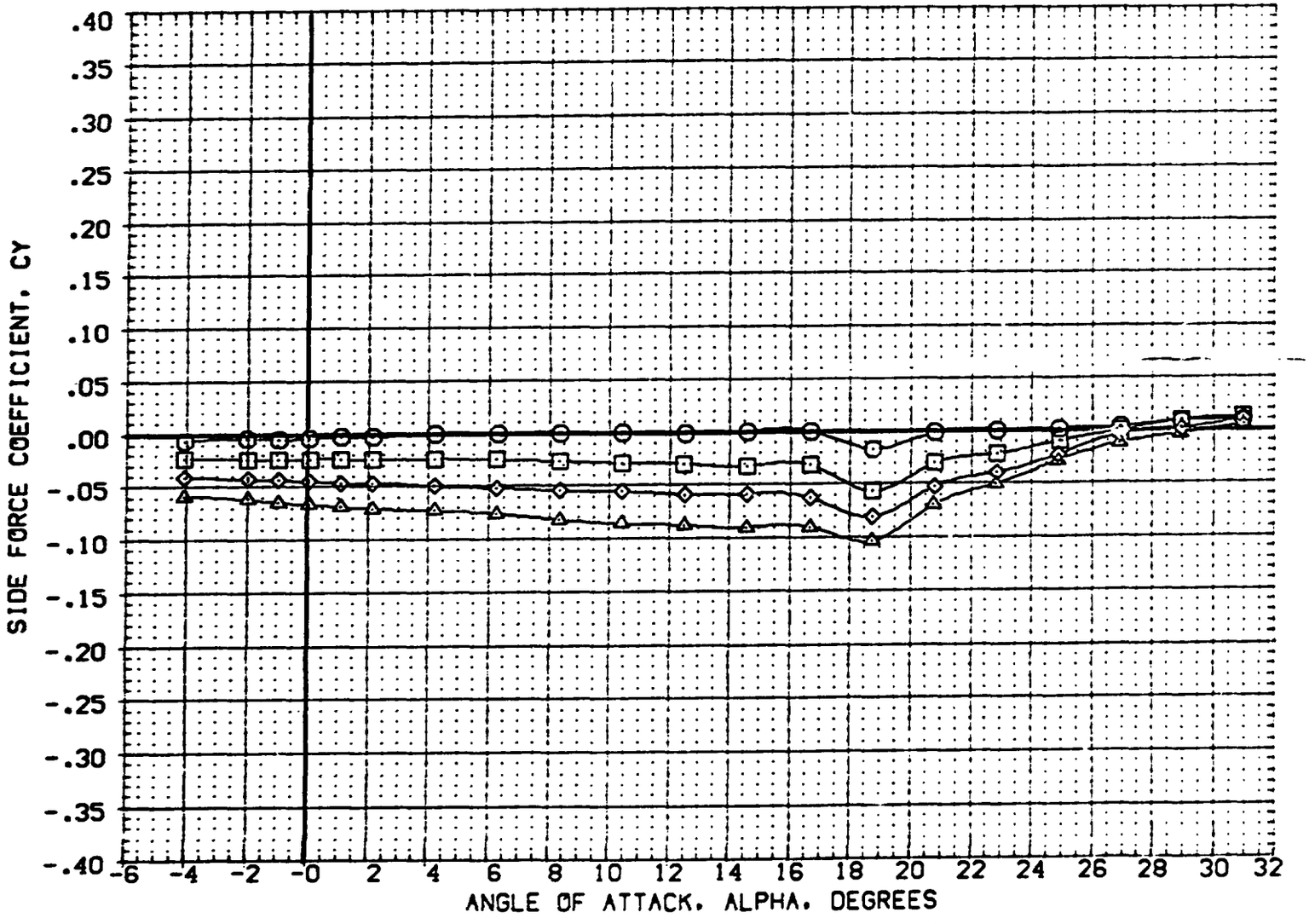


AILERON EFFECTIVENESS -89B FERRY CONFIGURATION - J14 ABPS MOVED AFT

(A)MACH = 0.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	AILRON	NACX/L
(RDS046)	○	0A71A B16C5 D7 F1J17V87 E18V3R3X10	.000	.000	.000	.000
(RDS050)	□	0A71A B16C5 D7 F1J17V87 E18V3R3X10	.000	.000	5.000	.000
(RDS052)	◇	0A71A B16C5 D7 F1J17V87 E18V3R3X10	.000	.000	10.000	.000
(RDS057)	△	0A71A B16C5 D7 F1J17V87 E18V3R3X10	.000	.000	15.000	.000

REFERENCE INFORMATION		
SREF	4.4122	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9349	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

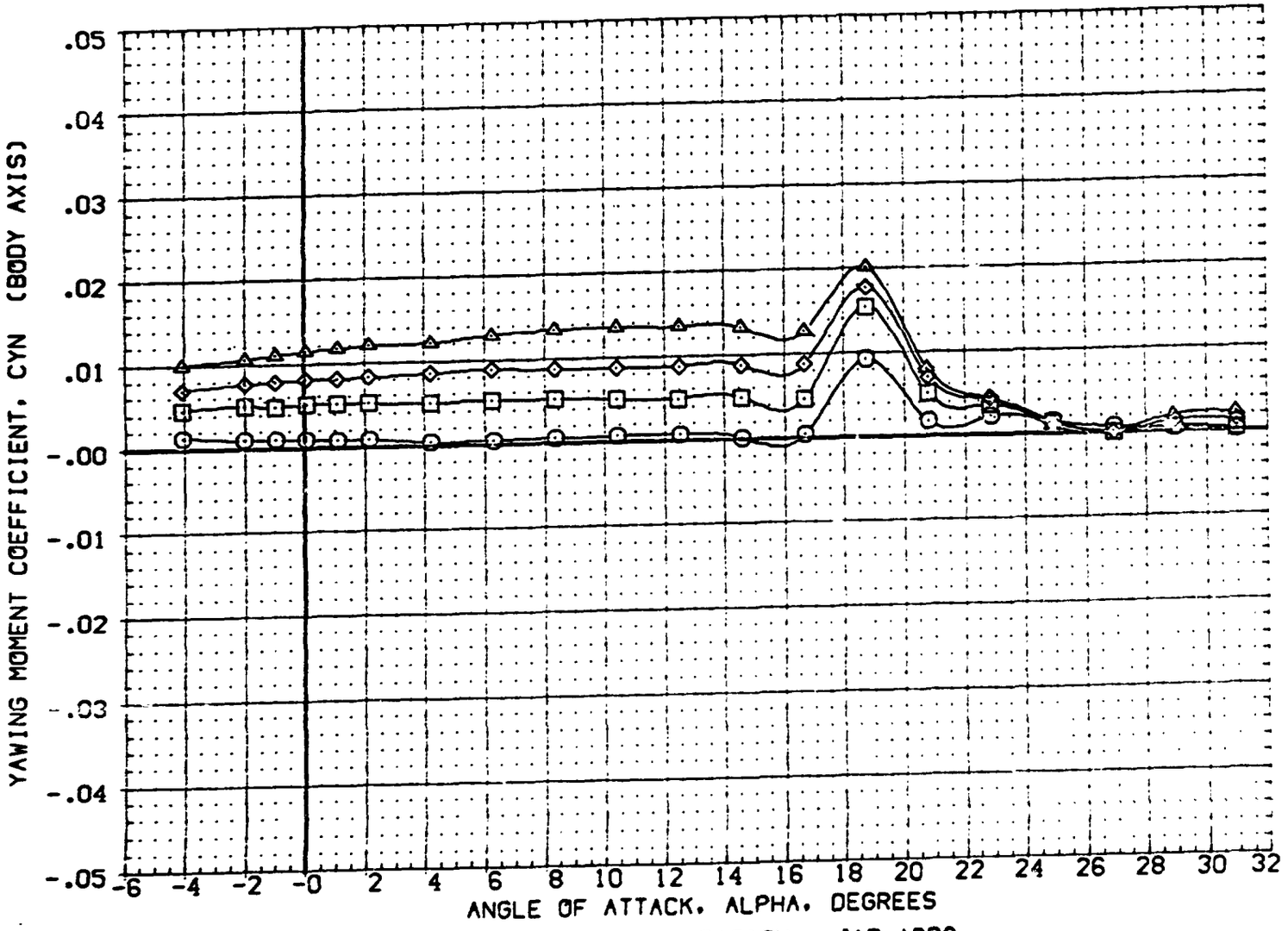


AILERON EFFECTIVENESS -89B FERRY CONFIGURATION - J17 ABPS

(A)MACH = 0.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	AILRON	NACX/L
(RDS046)	○	OA71A B16C5 D7 F1J17V87 E18V3R3X10	.000	.000	.000	.000
(RDS050)	□	OA71A B16C5 D7 F1J17V87 E18V3R3X10	.000	.000	5.000	.000
(RDS052)	⊠	OA71A B16C5 D7 F1J17V87 E18V3R3X10	.000	.000	10.000	.000
(RDS057)	△	OA71A B16C5 D7 F1J17V87 E18V3R3X10	.000	.000	15.000	.000

REFERENCE INFORMATION		
SREF	4.4122	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9349	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

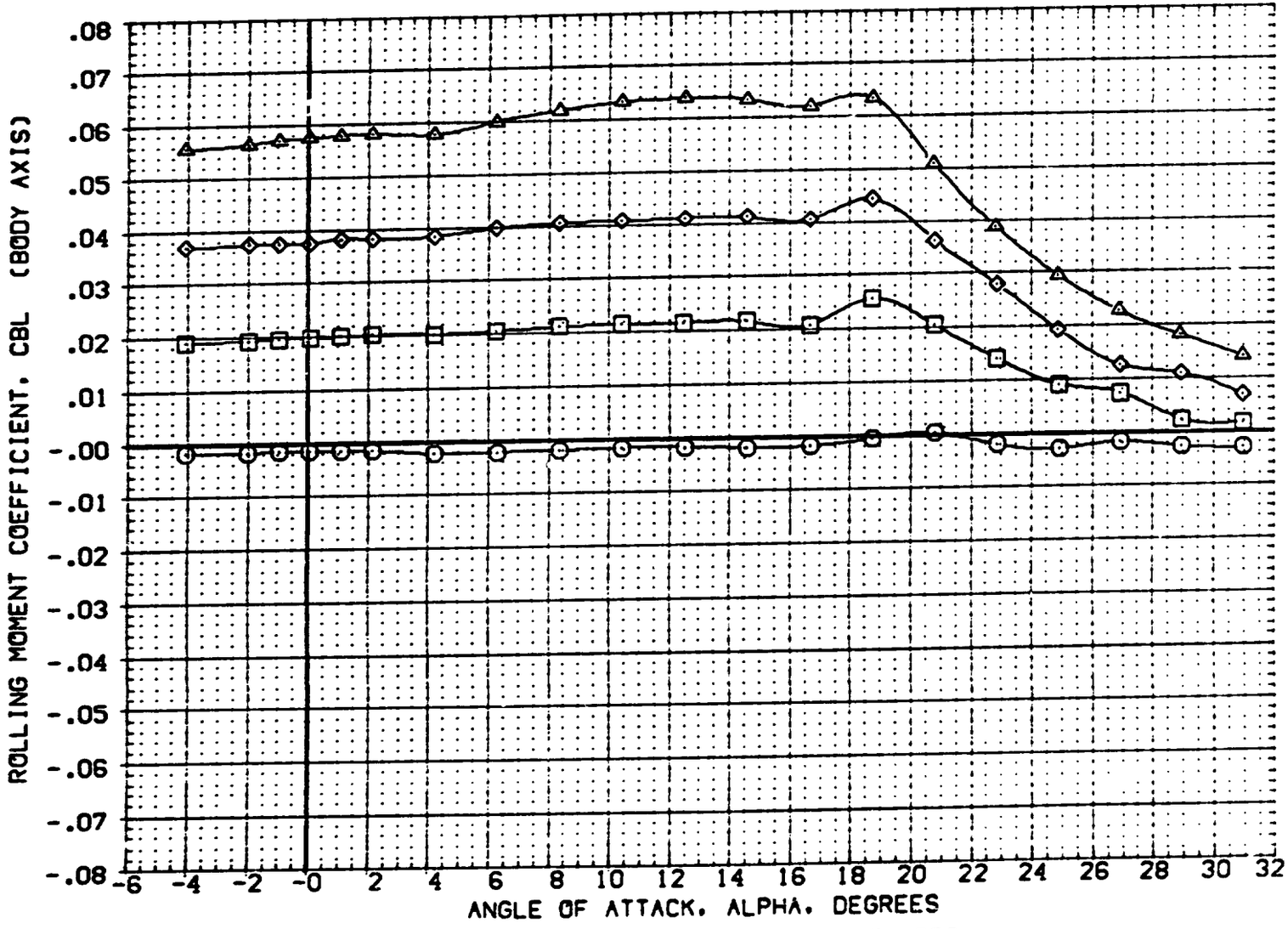


AILERON EFFECTIVENESS -89B FERRY CONFIGURATION - J17 ABPS

(A)MACH = 0.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	AILRON	NACX/L
(ROS046)	○	0A71A B16C5 D7 F1J17V87 E18V3R3X10	.000	.000	.000	.000
(ROS050)	□	0A71A B16C5 D7 F1J17V87 E18V3R3X10	.000	.000	5.000	.000
(ROS052)	◇	0A71A B16C5 D7 F1J17V87 E18V3R3X10	.000	.000	10.000	.000
(ROS057)	△	0A71A B16C5 D7 F1J17V87 E18V3R3X10	.000	.000	15.000	.000

REFERENCE INFORMATION		
SREF	4.4122	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9349	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

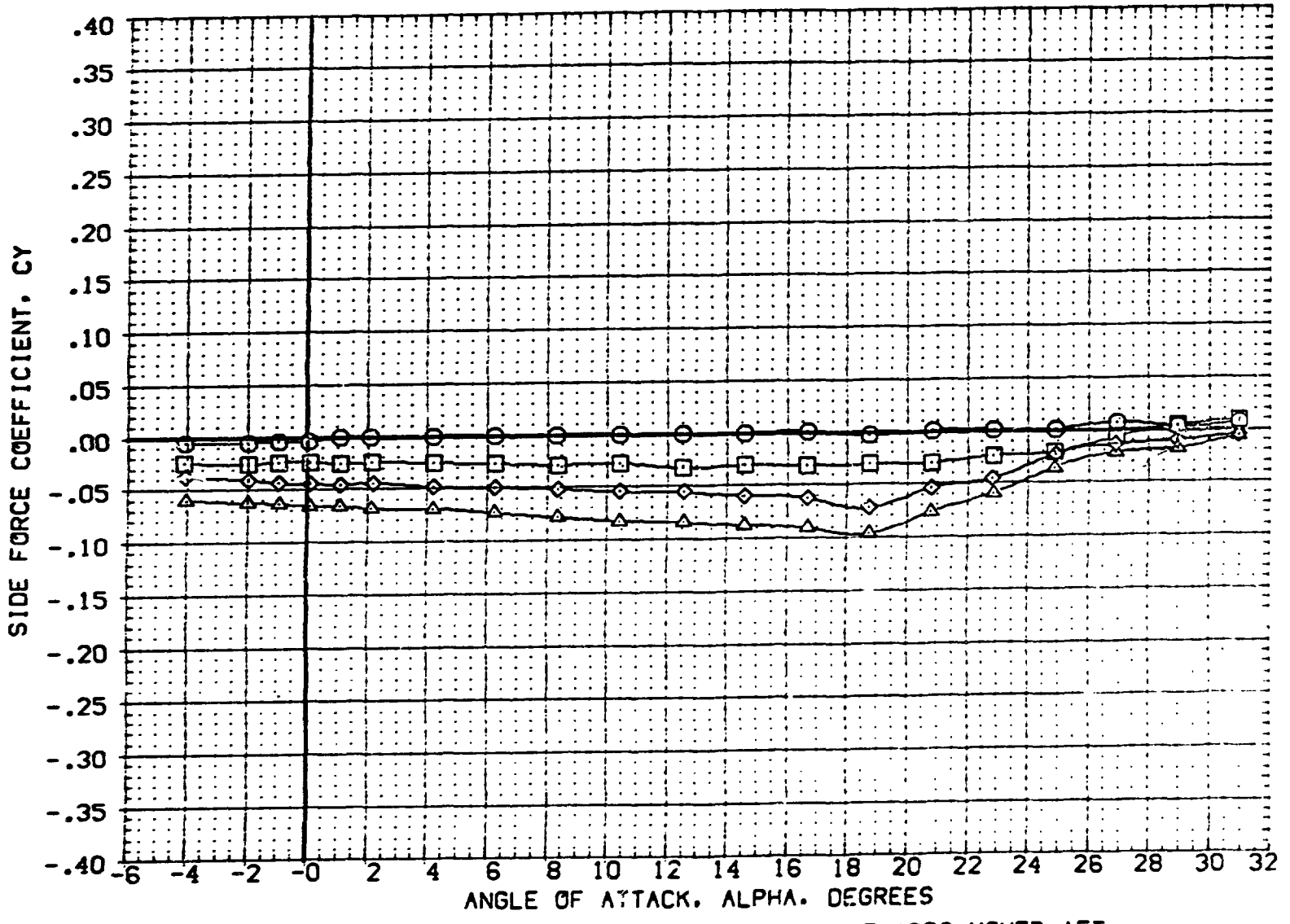


AILERON EFFECTIVENESS -89B FERRY CONFIGURATION - J17 ABPS

(A)MACH = 0.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	AILRON	NACX/L
(RDS043)	○	OA71A B16C5 D7 F1J17V87 E18V3R3X10	.000	.000	.000	.200
(RDS041)	□	OA71A B16C5 D7 F1J17V87 E18V3R3X10	.000	.000	5.000	.200
(RDS039)	◇	OA71A B16C5 D7 F1J17V87 E18V3R3X10	.000	.000	10.000	.200
(RDS035)	△	OA71A B16C5 D7 F1J17V87 E18V3R3X10	.000	.000	15.000	.200

REFERENCE INFORMATION		
SREF	4.4122	SQ.FT.
LREF	19.2288	INCHES
BREF	37.9349	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

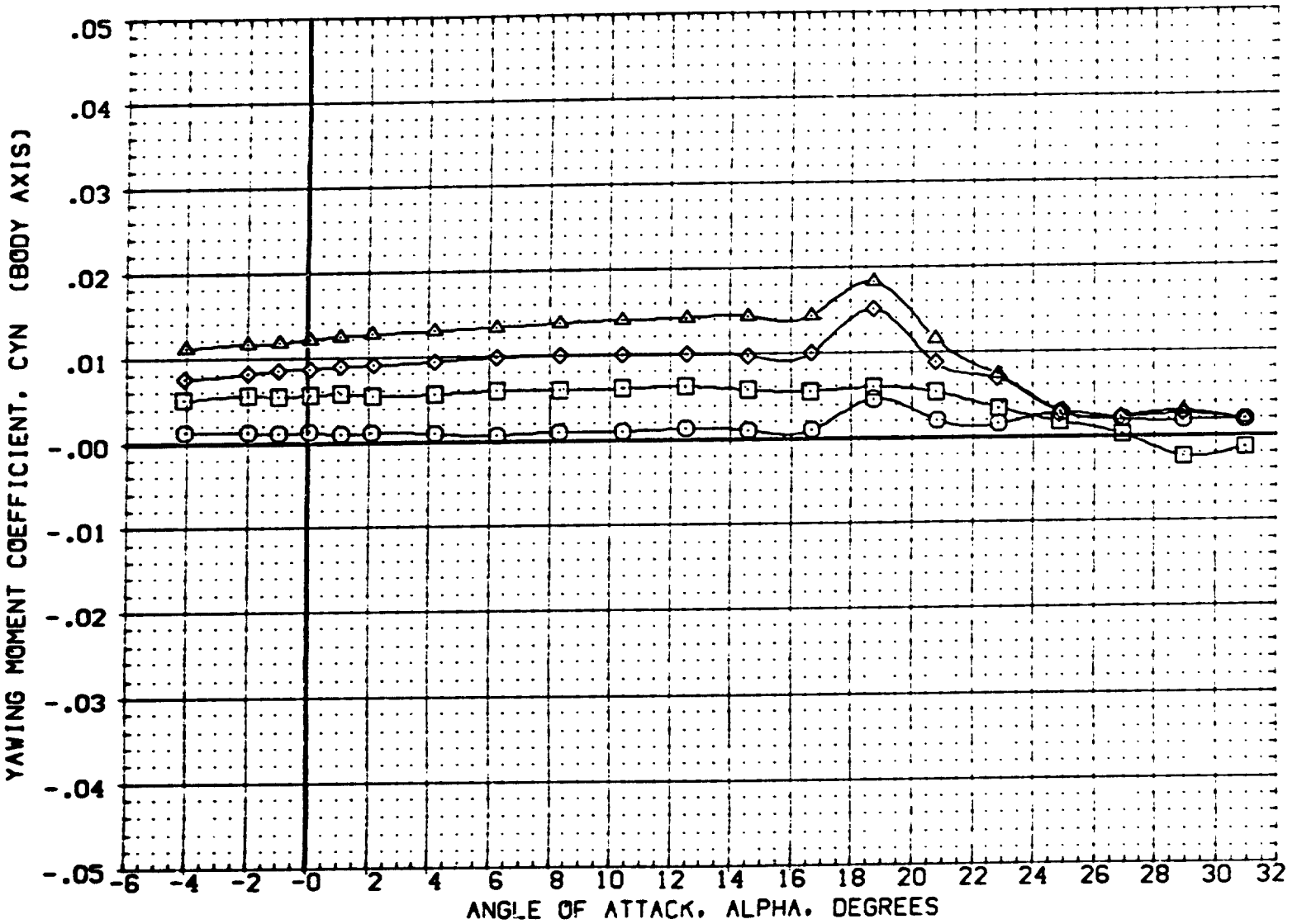


AILERON EFFECTIVENESS -89B FERRY CONFIGURATION - J17 ABPS MOVED AFT

(A)MACH = 0.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	AILRON	NACX/L
(ROS043)	○	CA71A B16C5 D7 F1J17V87 E18V3R3X10	.000	.000	.000	.200
(ROS041)	□	CA71A B16C5 D7 F1J17V87 E18V3R3X10	.000	.000	5.000	.200
(ROS039)	◇	CA71A B16C5 D7 F1J17V87 E18V3R3X10	.000	.000	10.000	.200
(ROS035)	△	CA71A B16C5 D7 F1J17V87 E18V3R3X10	.000	.000	15.000	.200

REFERENCE INFORMATION		
SREF	4.4122	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9349	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

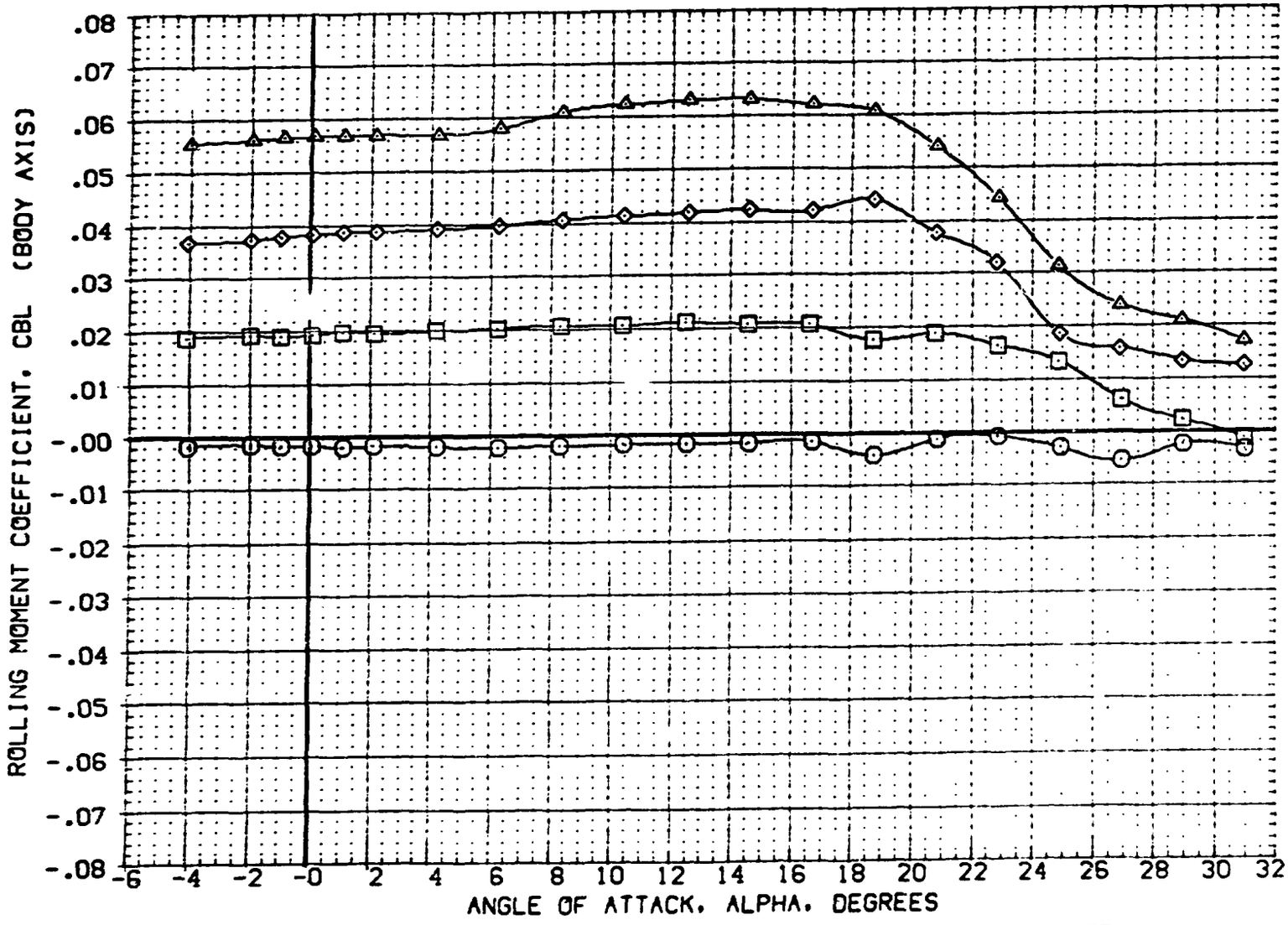


AILERON EFFECTIVENESS -89B FERRY CONFIGURATION - J17 ABPS MOVED AFT

(A)MACH = 0.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	AILRON	NACX/L
(RDS043)	○	0A71A B16C5 D7 F1J17V87 E18V3R3X10	.000	.000	.000	.200
(RDSU41)	□	0A71A B16C5 D7 F1J17V87 E18V3R3X10	.000	.000	5.000	.200
(RDS039)	◇	0A71A B16C5 D7 F1J17V87 E18V3R3X10	.000	.000	10.000	.200
(RDS035)	△	0A71A B16C5 D7 F1J17V87 E18V3R3X10	.000	.000	15.000	.200

REFERENCE INFORMATION		
SREF	4.4122	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9349	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE



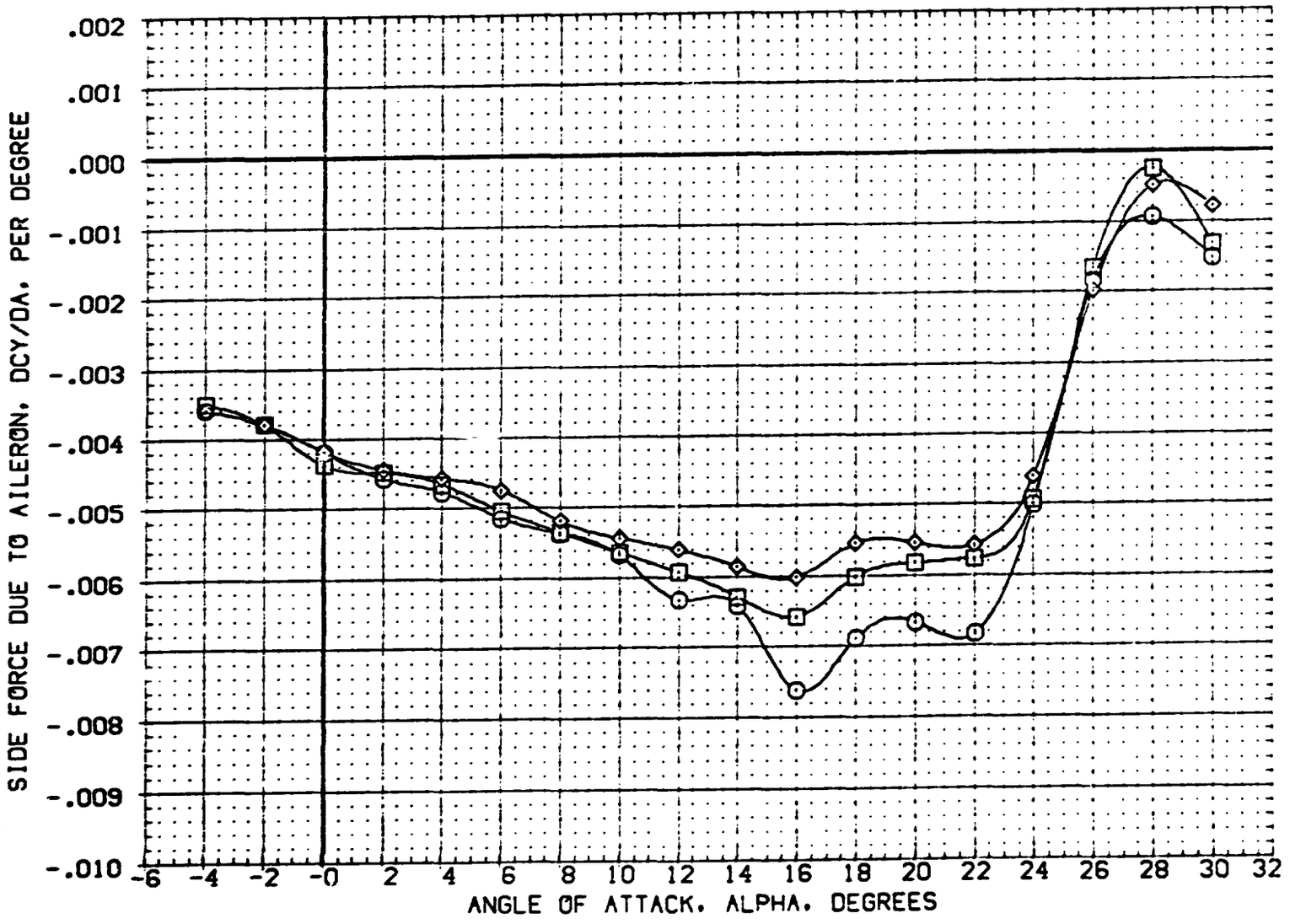
AILERON EFFECTIVENESS -89B FERRY CONFIGURATION - J17 ABPS MOVED AFT

(A)MACH = 0.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	DAILRN	ELEVON
(CDSC05)	○	0A71A B16C5 07 F1 V87E18V3R3X9	.000	5.000	.000
(CDSC07)	□	0A71A B16C5 07 F1 V87E18V3R3X9	.000	10.000	.000
(CDSC10)	◇	0A71A B16C5 07 F1 V87E18V3R3X9	.000	15.000	.000

REFERENCE INFORMATION

SREF	4.4122	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9349	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE



AILERON DERIVATIVE -89B FERRY CONFIGURATION - ABPS OFF

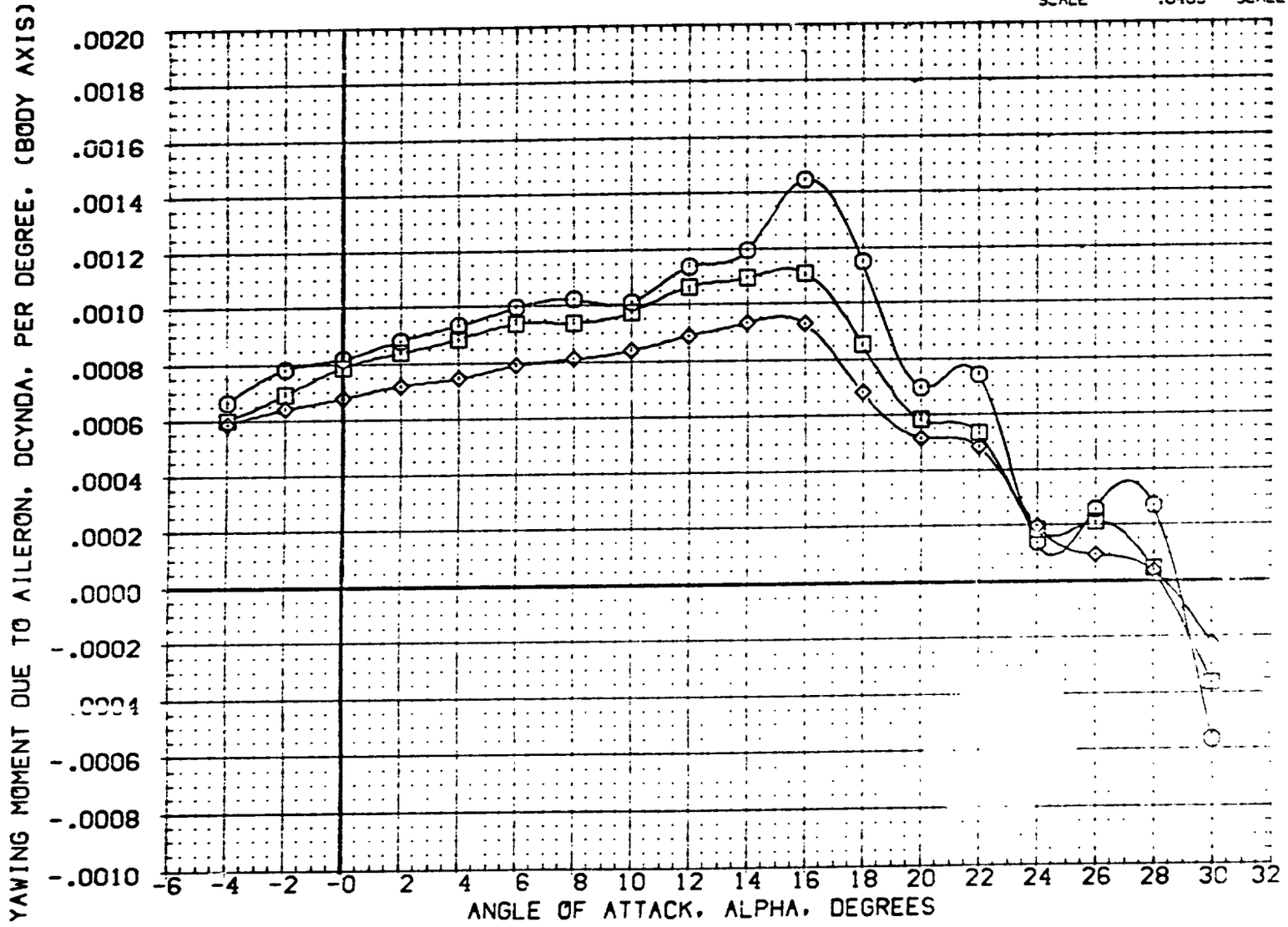
(A)MACH = 0.20

DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(CDSC05)	○	CA71A B15C5 D7 F1 V87E18V3R3X9
(CDSC07)	□	CA71A B16C5 D7 F1 V87E18V3R3X9
(CDSC10)	◇	CA71A B16C5 D7 F1 V87E18V3R3X9

BETA	DAILRN	ELEVON
.000	5.000	.000
.000	10.000	.000
.000	15.000	.000

REFERENCE INFORMATION

SREF	4.4122	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9349	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE



AILERON DERIVATIVE -89B FERRY CONFIGURATION - ABPS OFF

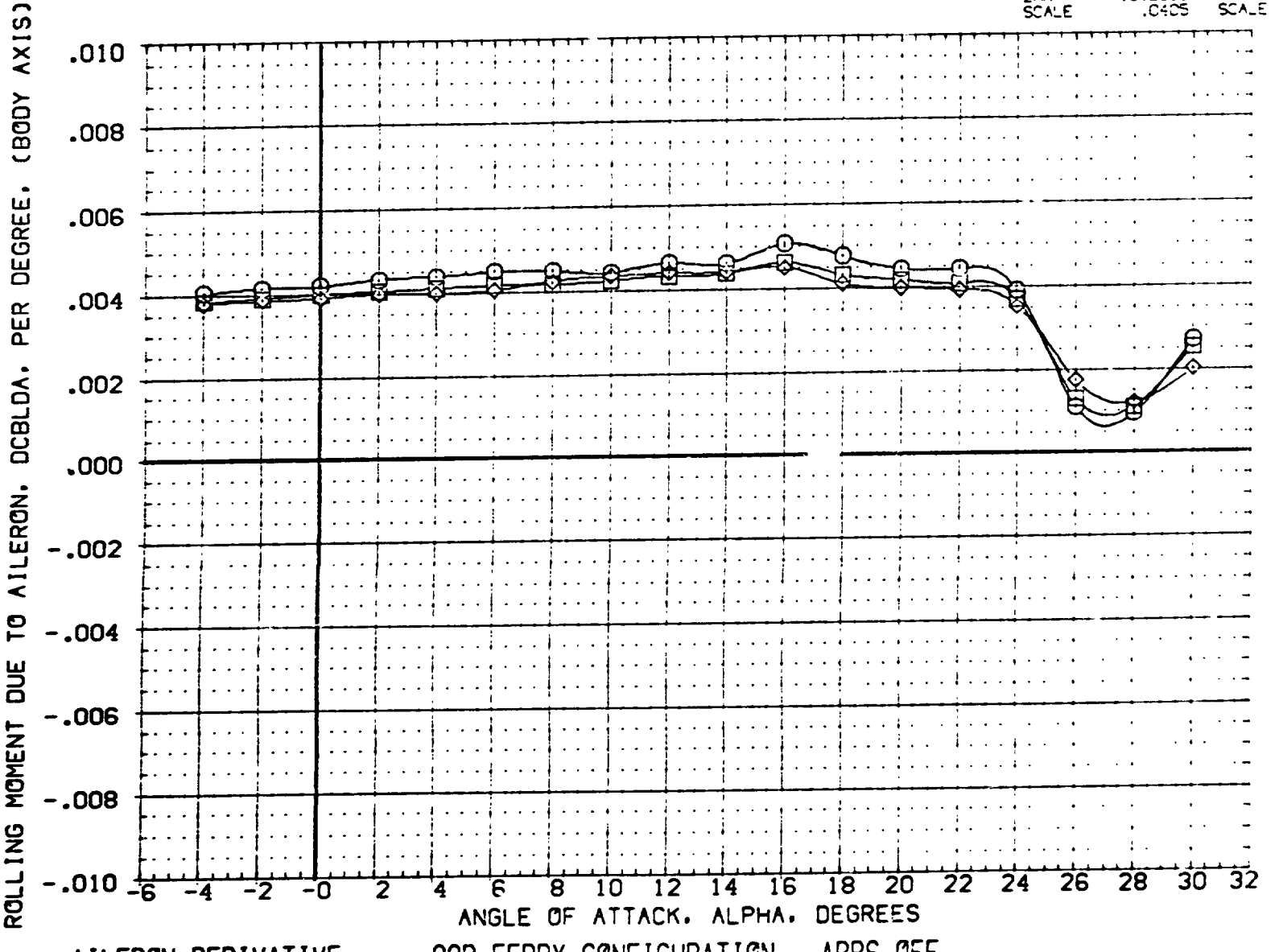
(A)MACH = 0.20

DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(CDSC05)	○	0A71A B16C5 D7 F1 W87E18V3R3X9
(CDSC07)	□	0A71A B16C5 D7 F1 W87E18V3R3X9
(CDSC10)	◇	0A71A B16C5 D7 F1 W87E18V3R3X9

BETA	DAILRN	ELEVON
.000	5.000	.000
.000	10.000	.000
.000	15.000	.000

REFERENCE INFORMATION

SREF	4.4122	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9349	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

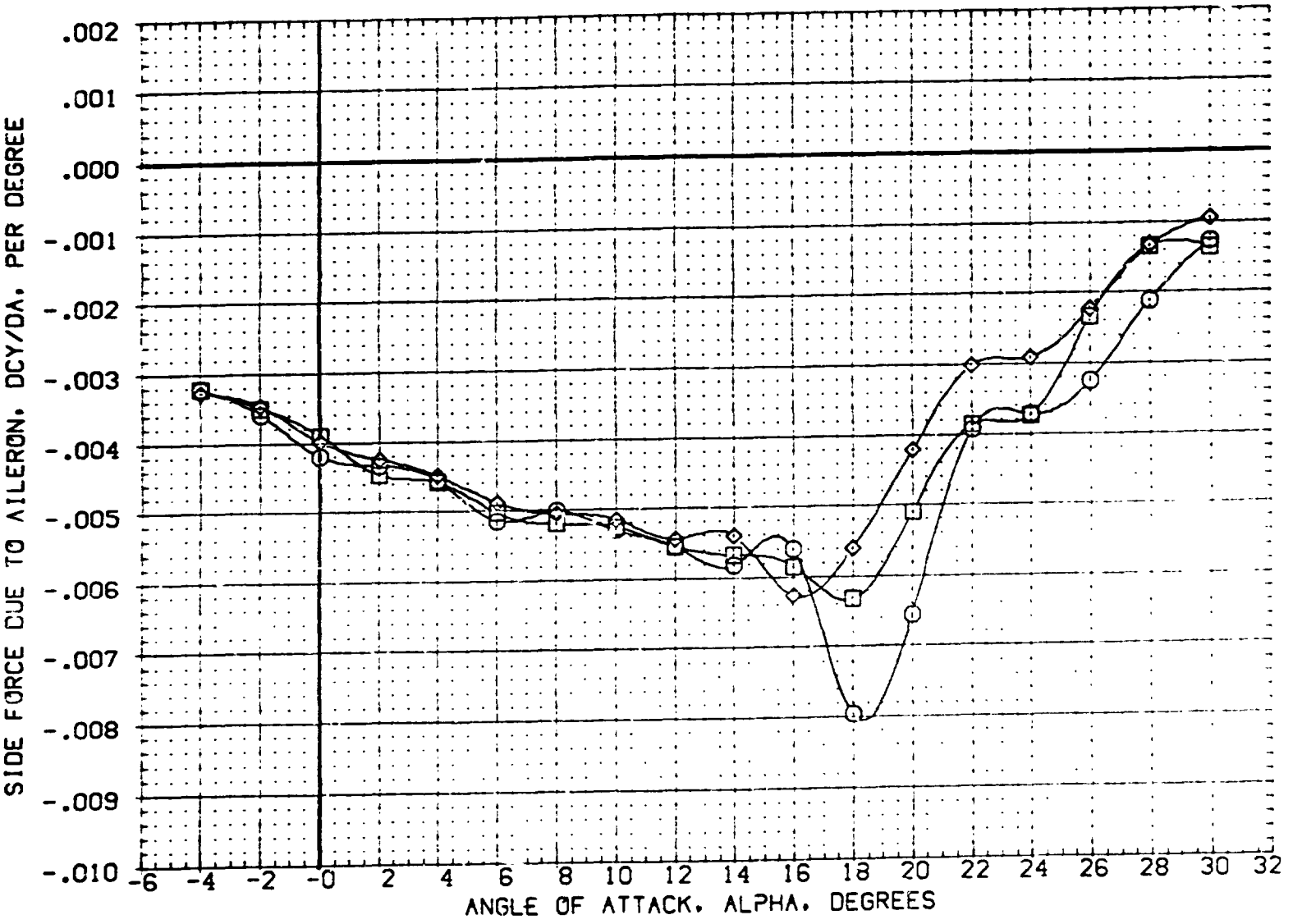


AILERON DERIVATIVE -89B FERRY CONFIGURATION - ABPS OFF

(A)MACH = 0.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	DAILRN	ELEVON
(CDSC16) ○	OA71A B16C5 D7 F1J14V87 E18V3R3X10	.000	5.000	.000
(CDSC14) □	OA71A B16C5 D7 F1J14V87 E18V3R3X10	.000	10.000	.000
(CDSC11) ◇	OA71A B16C5 D7 F1J14V87 E18V3R3X10	.000	15.000	.000

REFERENCE INFORMATION		
SREF	4.4122	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9349	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE



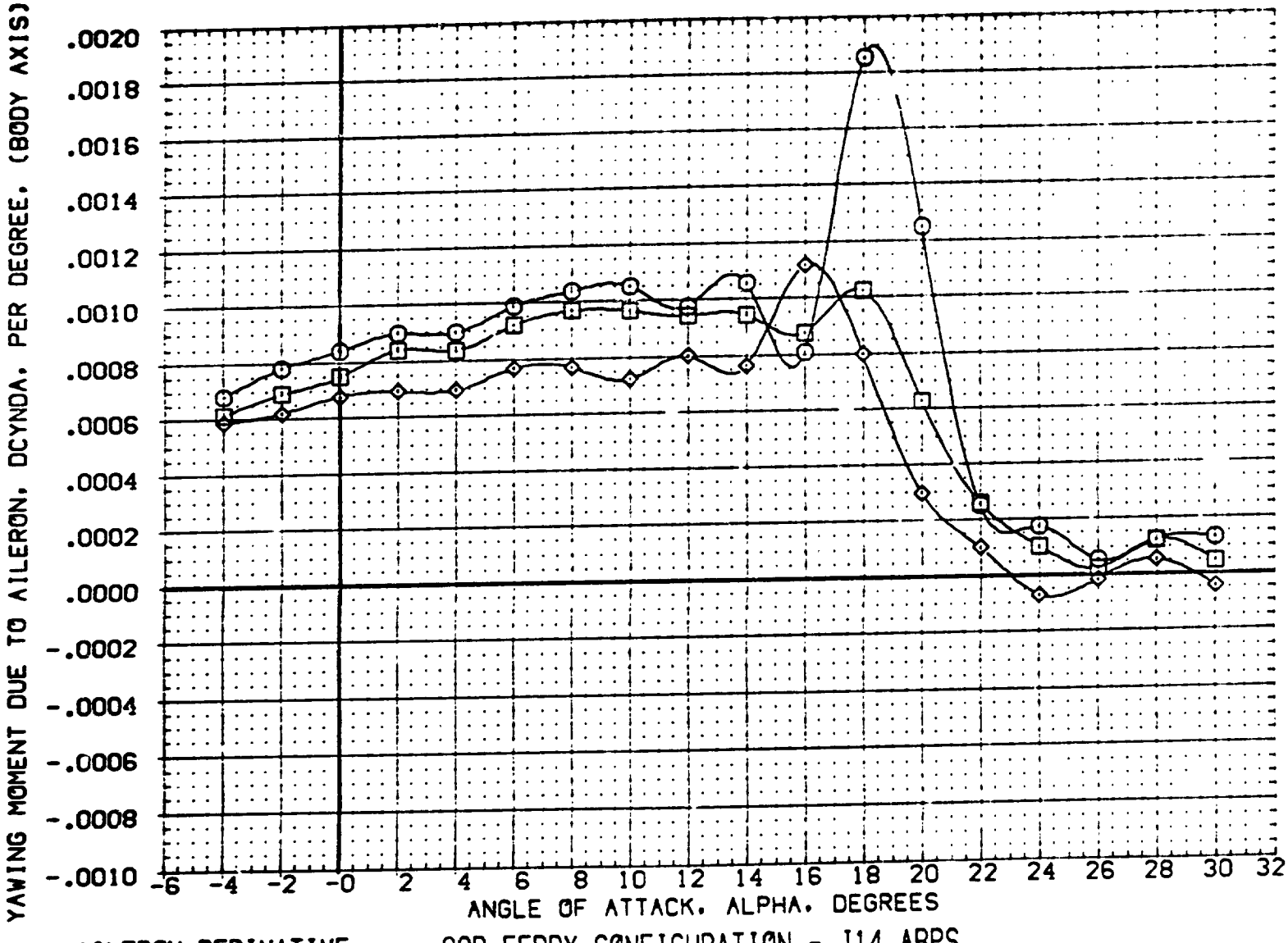
AILERON DERIVATIVE -89B FERRY CONFIGURATION - J14 ABPS

(A)MACH = 0.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	DAILRN	ELEVON
(C08C16)	□	0A71A B16C5 07 F1J14V87 E18V3R3X10	.000	5.000	.000
(C08C14)	◇	0A71A B16C5 07 F1J14V87 E18V3R3X10	.000	10.000	.000
(C08C11)		0A71A B16C5 07 F1J14V87 E18V3R3X1C	.000	15.000	.000

REFERENCE INFORMATION

SREF	4.4122	SQ.FT.
LREF	19.2299	FT.
BREF	37.9349	FT.
XCG	43.5974	FT.
YCG	.0000	FT.
ZCG	16.2000	FT.
SCALE	.0405	SQ.FT.

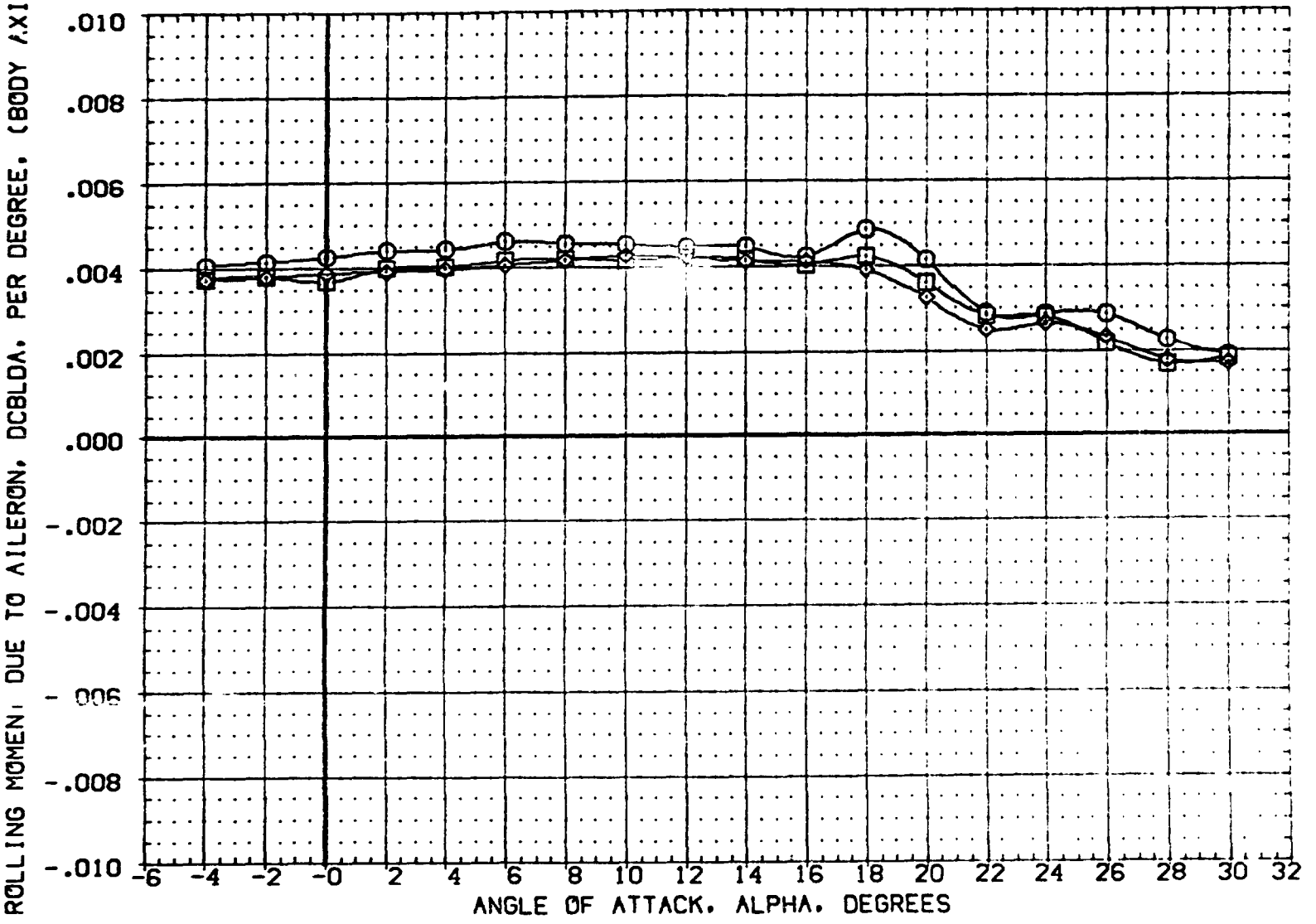


AILERON DERIVATIVE -89B FERRY CONFIGURATION - J14 ABPS

(A)MACH = 0.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	DAILRN	ELEVON
(COSC16)	○	0A71A B16C5 D7 F1J14V87 E18V3R3X10	.000	5.000	.000
(COSC14)	□	0A71A B16C5 D7 F1J14V87 E18V3R3X10	.000	10.000	.000
(COSC11)	◇	0A71A B16C5 D7 F1J14V87 E18V3R3X10	.000	15.000	.000

REFERENCE INFORMATION		
SREF	4.4122	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9349	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

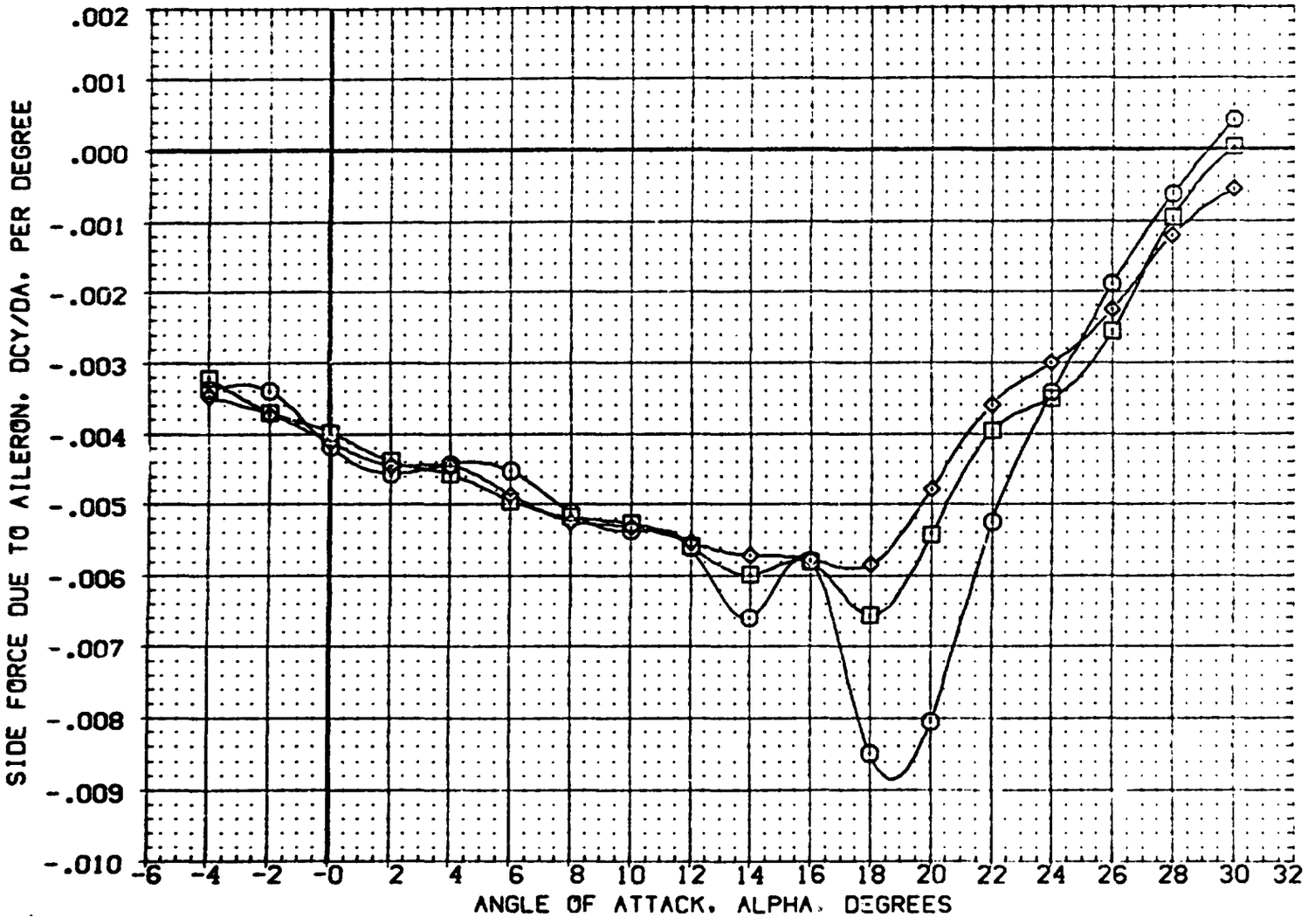


AILERON DERIVATIVE -89B FERRY CONFIGURATION - J14 ABPS

(A)MACH = 0.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	DAILRN	ELEVON
(COSC27)	○	0A71A B16C5 D7 F1J14V87 E18V3R3X10	.000	5.000	.000
(COSC30)	□	0A71A B16C5 D7 F1J14V87 E18V3R3X10	.000	10.000	.000
(COSC33)	◇	0A71A B16C5 D7 F1J14V87 E18V3R3X10	.000	15.000	.000

REFERENCE INFORMATION		
SREF	4.4122	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9349	INCHES
XMRP	43.5874	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

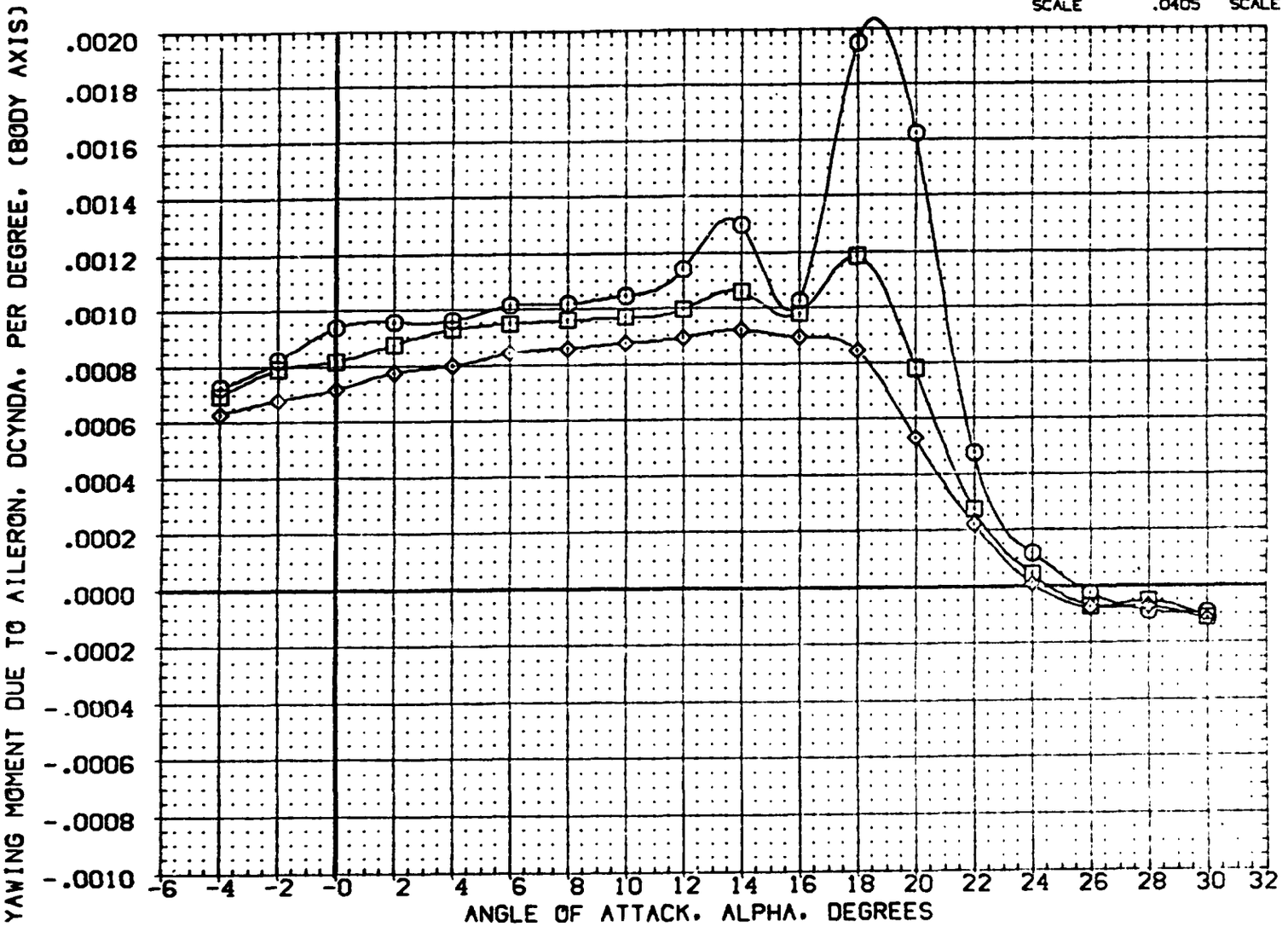


AILERON DERIVATIVE -89B FERRY CONFIGURATION - J14 ABPS MOVED AFT

(A)MACH = 0.20

DATA SET SYMBOL		CONFIGURATION DESCRIPTION	BETA	DAILRN	ELEVON
(CDSC27)	○	0A71A B16C5 07 F1J14V87 E18V3R3X10	.000	5.000	.000
(CDSC30)	□	0A71A B16C5 07 F1J14V87 E18V3R3X10	.000	10.000	.000
(CDSC33)	◇	0A71A B16C5 07 F1J14V87 E18V3R3X10	.000	15.000	.000

REFERENCE INFORMATION		
SREF	4.4122	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9349	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE



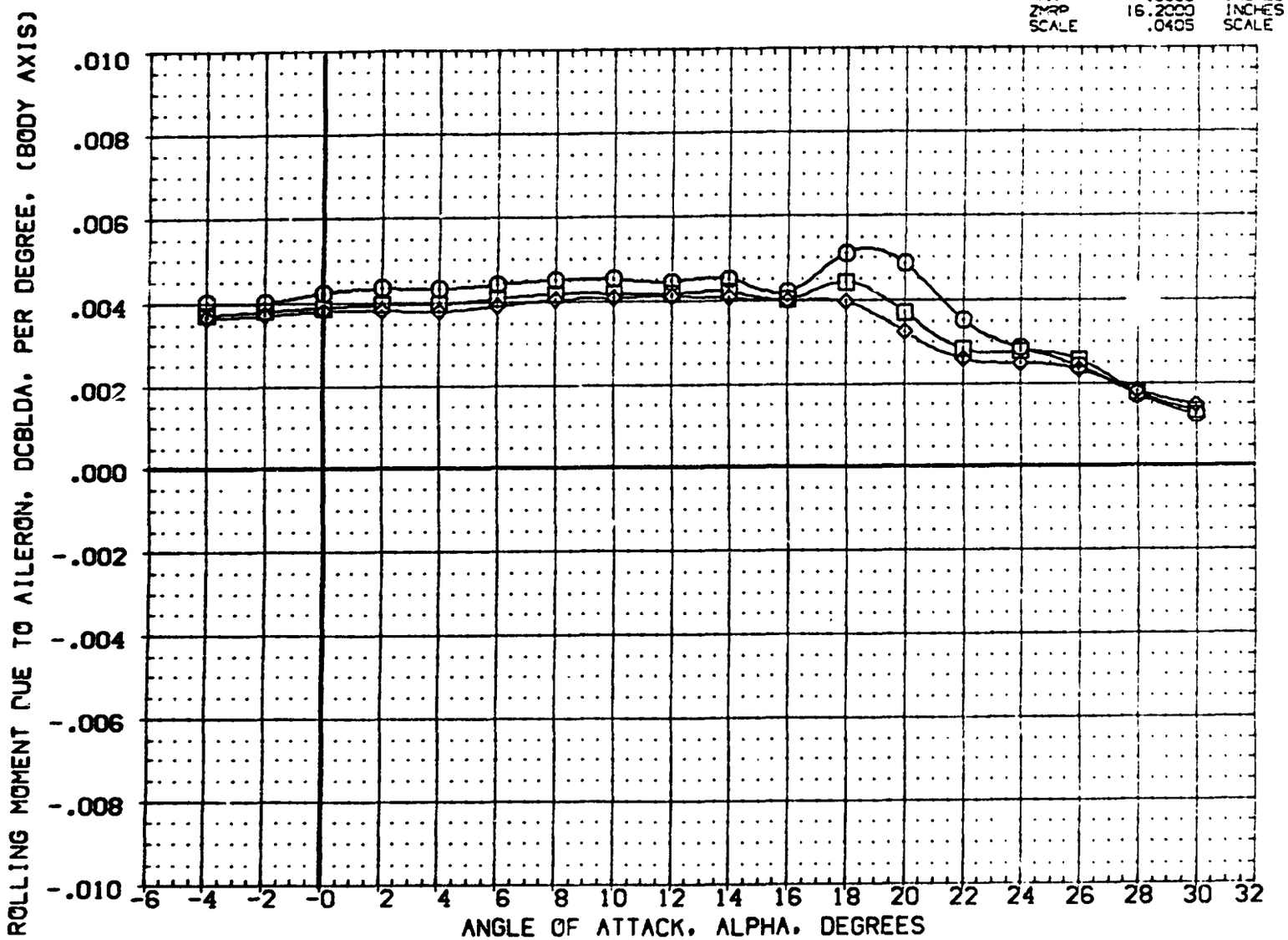
AILERON DERIVATIVE -89B FERRY CONFIGURATION - J14 ABPS MOVED AFT

(A)MACH = 0.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	DAILRN	ELEVON
(CDSC27)	○	0A71A B16C5 D7 F1J14V87 E18V3R3X10	.000	5.000	.000
(CDSC30)	□	0A71A B16C5 D7 F1J14V87 E18V3R3X10	.000	10.000	.000
(CDSC33)	◇	0A71A B16C5 D7 F1J14V87 E18V3R3X10	.000	15.000	.000

REFERENCE INFORMATION

SREF	4.4122	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9349	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

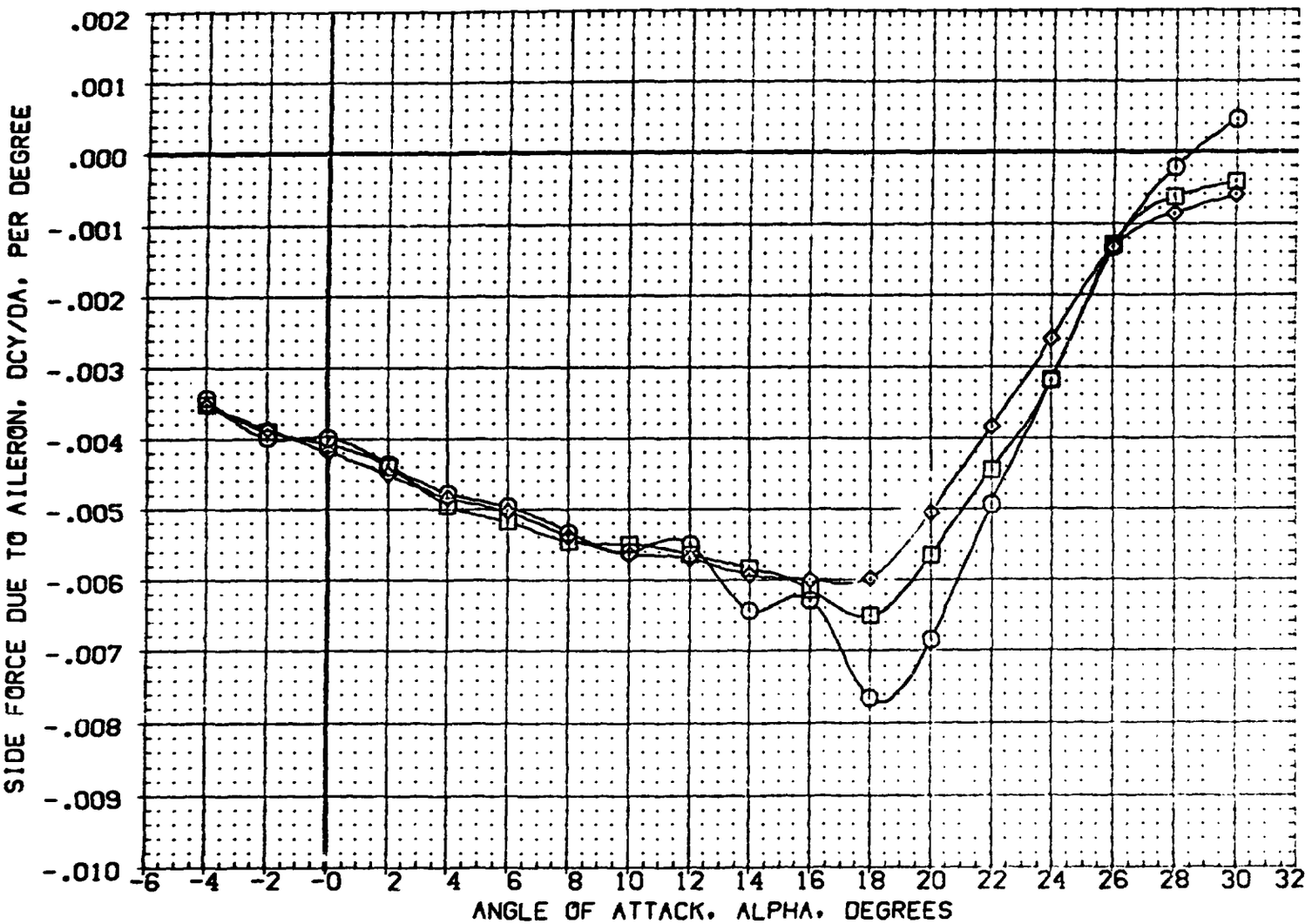


AILERON DERIVATIVE -89B FERRY CONFIGURATION - J14 ABPS MOVED AFT

(A)MACH = 0.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	DAILRN	ELEVON
(CDSC50)	○	0A71A B16C5 D7 F1J17V87 E18V3R3X10	.000	5.000	.000
(CDSC52)	□	0A71A B16C5 D7 F1J17V87 E18V3R3X10	.000	10.000	.000
(CDSC57)	◇	0A71A B16C5 D7 F1J17V87 E18V3R3X10	.000	15.000	.000

REFERENCE INFORMATION		
SREF	4.4122	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9349	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

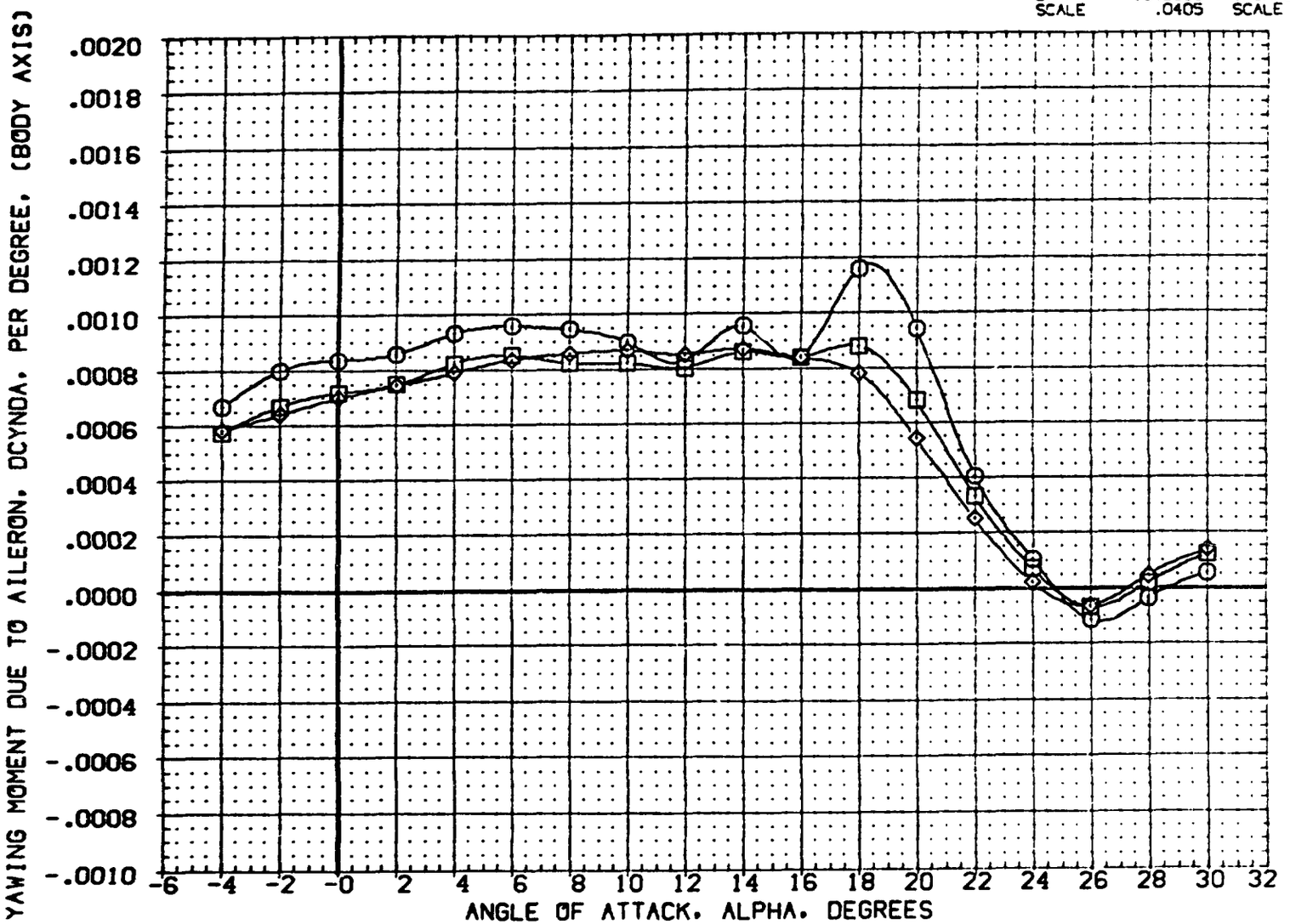


AILERON DERIVATIVE -89B FERRY CONFIGURATION - J17 ABPS

(A)MACH = 0.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	DAILRN	ELEVON
(CDSC50) ○	0A71A B16C5 D7 F1J17V87 E18V3R3X10	.000	5.000	.000
(CDSC52) □	0A71A B16C5 D7 F1J17V87 E18V3R3X10	.000	10.000	.000
(CDSC57) ◇	0A71A B16C5 D7 F1J17V87 E18V3R3X10	.000	15.000	.000

REFERENCE INFORMATION		
SREF	4.4122	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9349	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

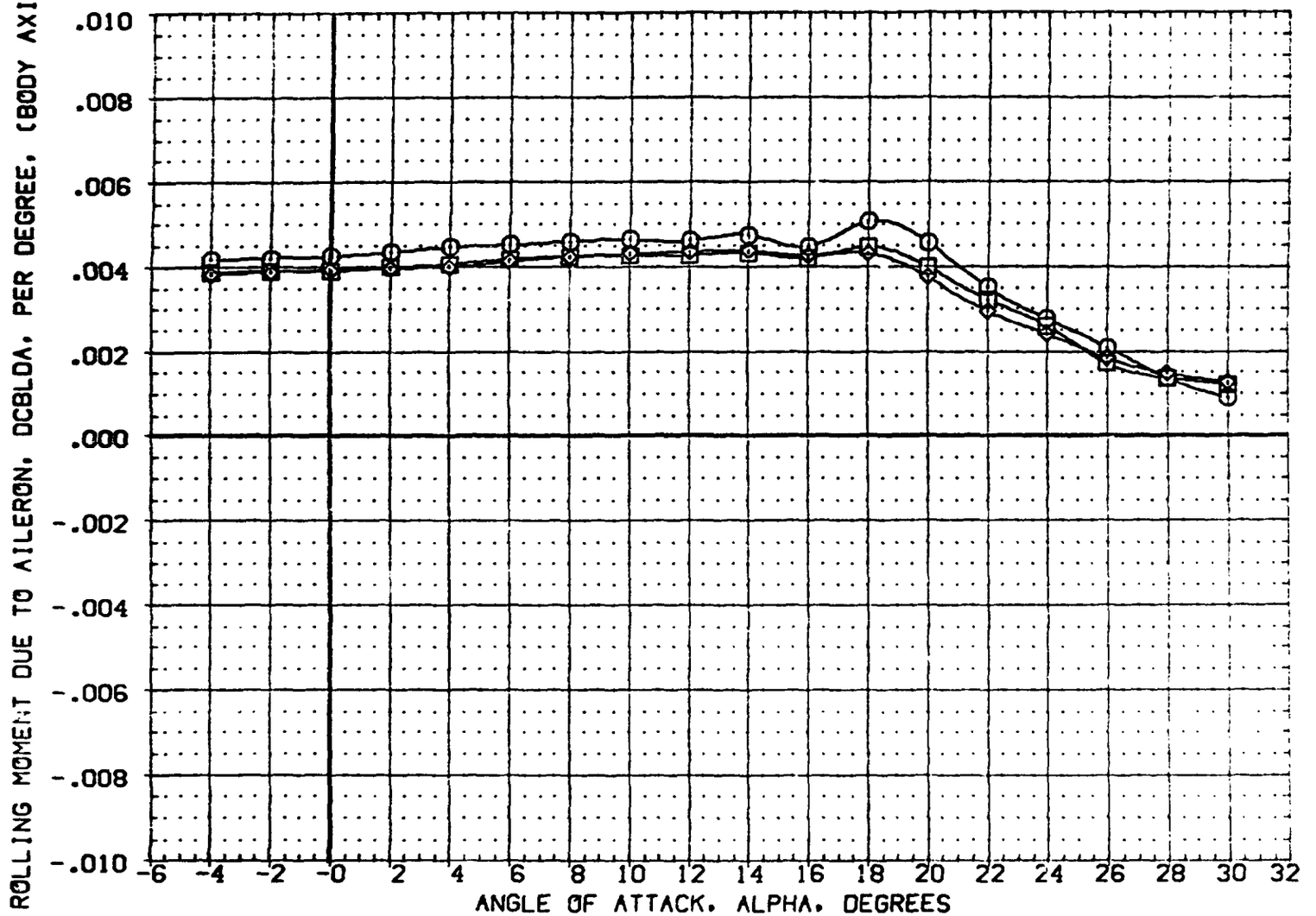


AILERON DERIVATIVE -89B FERRY CONFIGURATION - J17 ABPS

(A)MACH = 0.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	DAILRN	ELEVON
(CDSC50)	○	0A71A B16C5 D7 F1J17W87 E18V3R3X10	.000	5.000	.000
(CDSC52)	□	0A71A B16C5 D7 F1J17W87 E18V3R3X10	.000	10.000	.000
(CDSC57)	◇	0A71A B16C5 D7 F1J17W87 E18V3R3X10	.000	15.000	.000

REFERENCE INFORMATION		
SREF	4.4122	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9349	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.04CS	SCALE

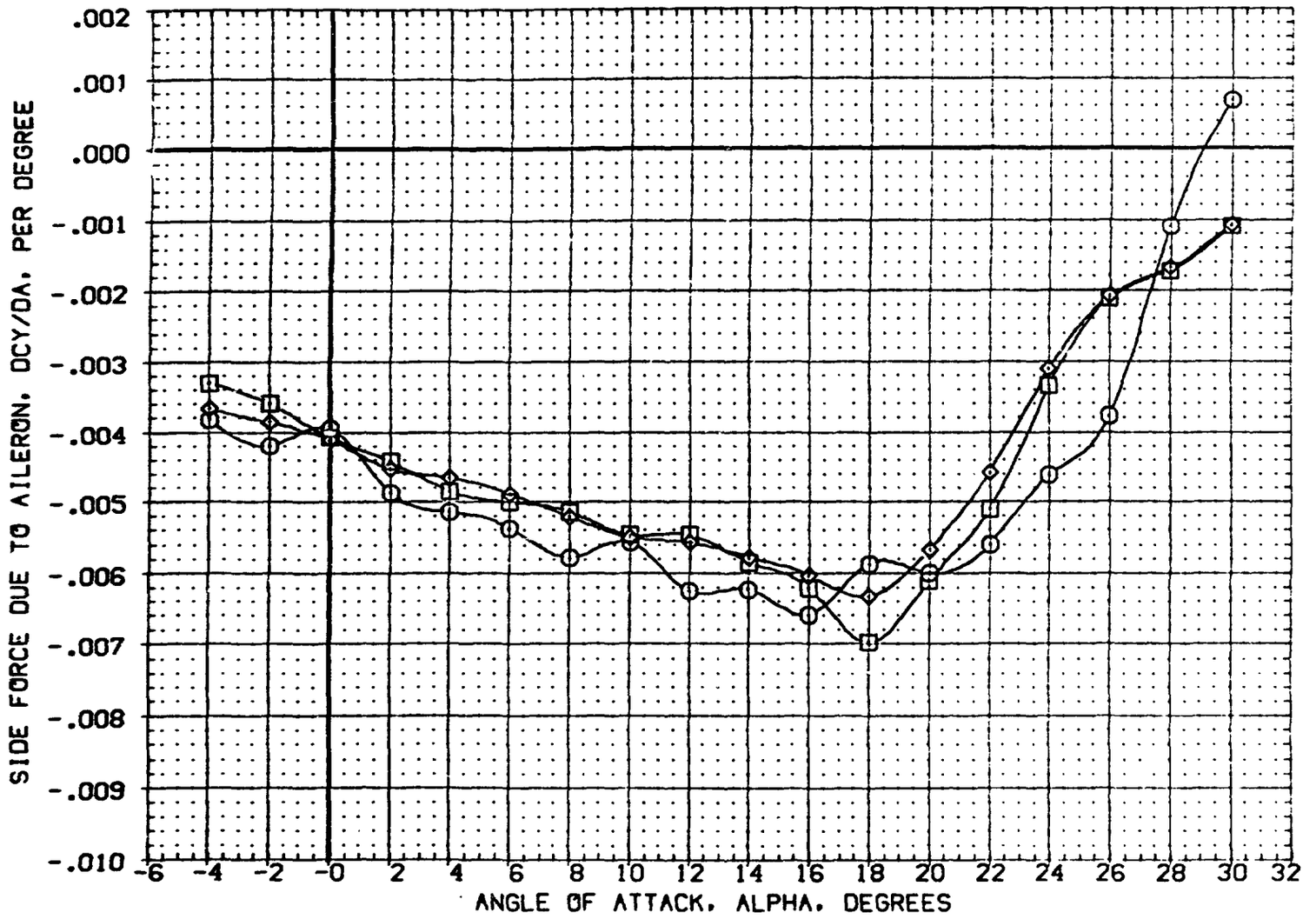


AILERON DERIVATIVE -89B FERRY CONFIGURATION - J17 ABPS

(A)MACH = 0.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	DAILRN	ELEVON
(CDSC41)	○	0A71A B16C5-07 F1J17V87 E18V3R3X10	.000	5.000	.000
(CDSC39)	□	0A71A B16C5 07 F1J17V87 E18V3R3X10	.000	10.000	.000
(CDSC35)	◇	0A71A B16C5 07 F1J17V87 E18V3R3X10	.000	15.000	.000

REFERENCE INFORMATION		
SREF	4.4122	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9349	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

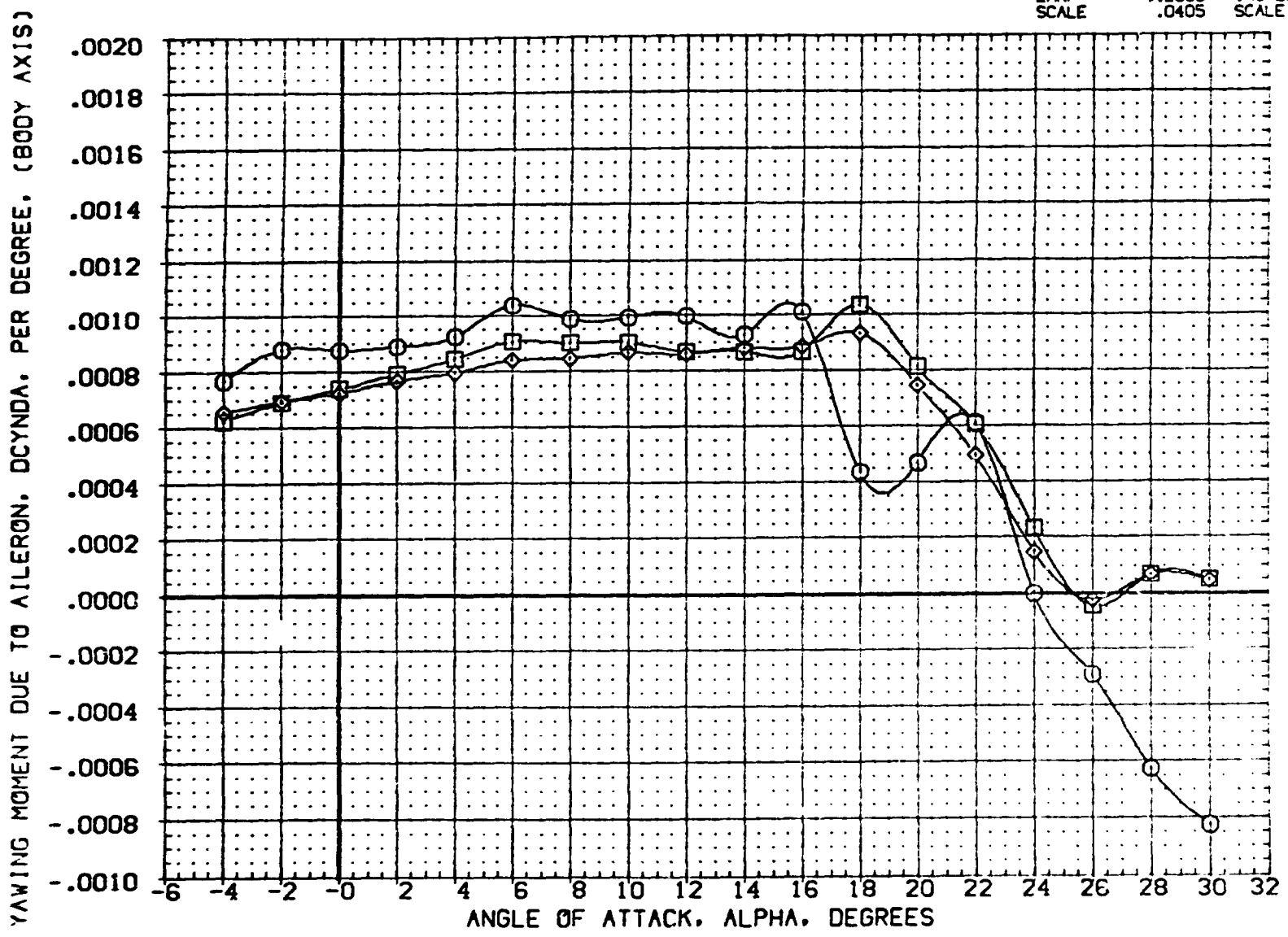


AILERON DERIVATIVE -89B FERRY CONFIGURATION - J17 ABPS MOVED AFT

(A)MACH = 0.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	DAILRN	ELEVON
(COSC41)	○	0A71A B16C5 D7 F1J17V87 E18V3R3X10	.000	5.000	.000
(COSC39)	□	0A71A B16C5 D7 F1J17V87 E18V3R3X10	.000	10.000	.000
(COSC35)	◇	0A71A B16C5 D7 F1J17V87 E18V3R3X10	.000	15.000	.000

REFERENCE INFORMATION		
SREF	4.4122	SQ.FT.
LREF	19.2295	INCHES
BREF	37.9349	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	15.2000	INCHES
SCALE	.0405	SCALE



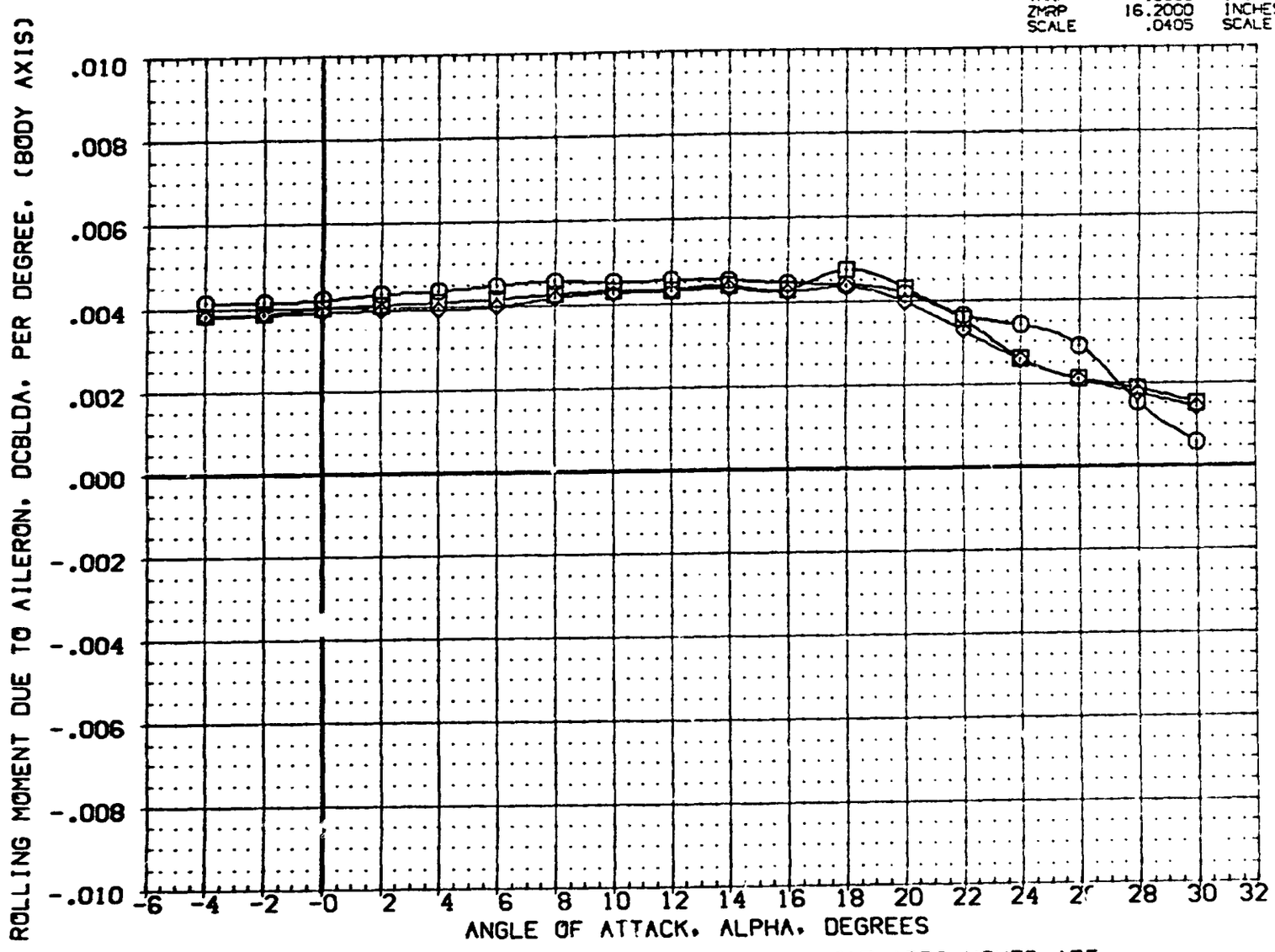
AILERON DERIVATIVE -89B FERRY CONFIGURATION - J17 ABPS MOVED AFT

(A)MACH = 0.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	DAILRN	ELEVON
(CDSC41)	○	0A71A B16C5 D7 F1J17V87 E18V3R3X10	.000	5.000	.000
(CDSC39)	□	0A71A B16C5 D7 F1J17V87 E18V3R3X10	.000	10.000	.000
(CDSC35)	◇	0A71A B16C5 D7 F1J17V87 E18V3R3X10	.000	15.000	.000

REFERENCE INFORMATION

SREF	4.4122	SQ.FT.
LREF	19.2799	INCHES
BREF	37.9349	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE



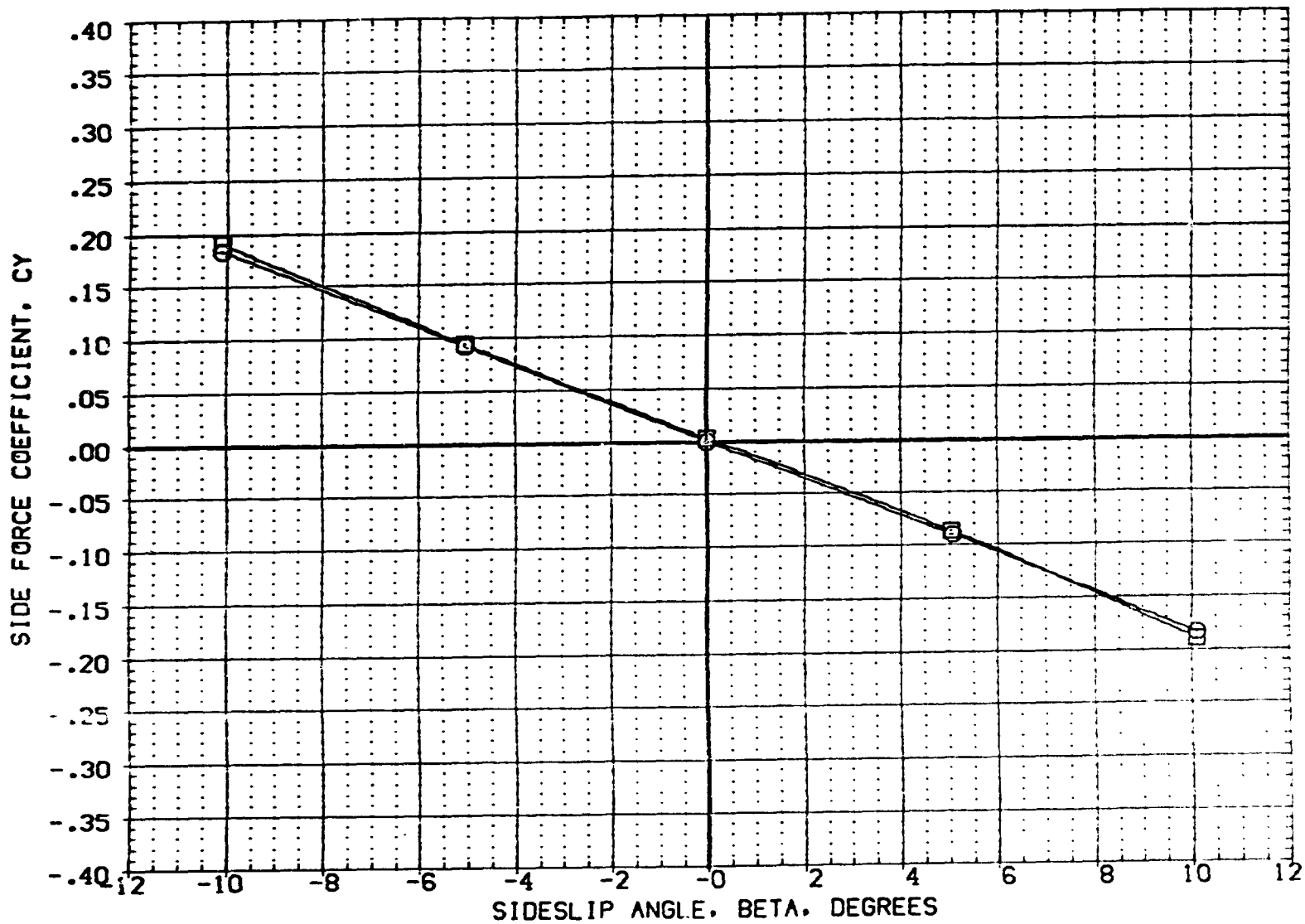
AILERON DERIVATIVE -89B FERRY CONFIGURATION - J17 ABPS MOVED AFT

(A)MACH = 0.20

DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(RDS002)	○	0A71A B16C5 D7 F1 W87E18V3R3X9
(RDS003)	□	0A71A B16C5 D7 F1 W87E18V3R3X9

ALPHA	ELEVON	AILRON
.000	.000	.000
10.000	.000	.000

REFERENCE INFORMATION		
SREF	4.4122	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9349	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0105	SCALE



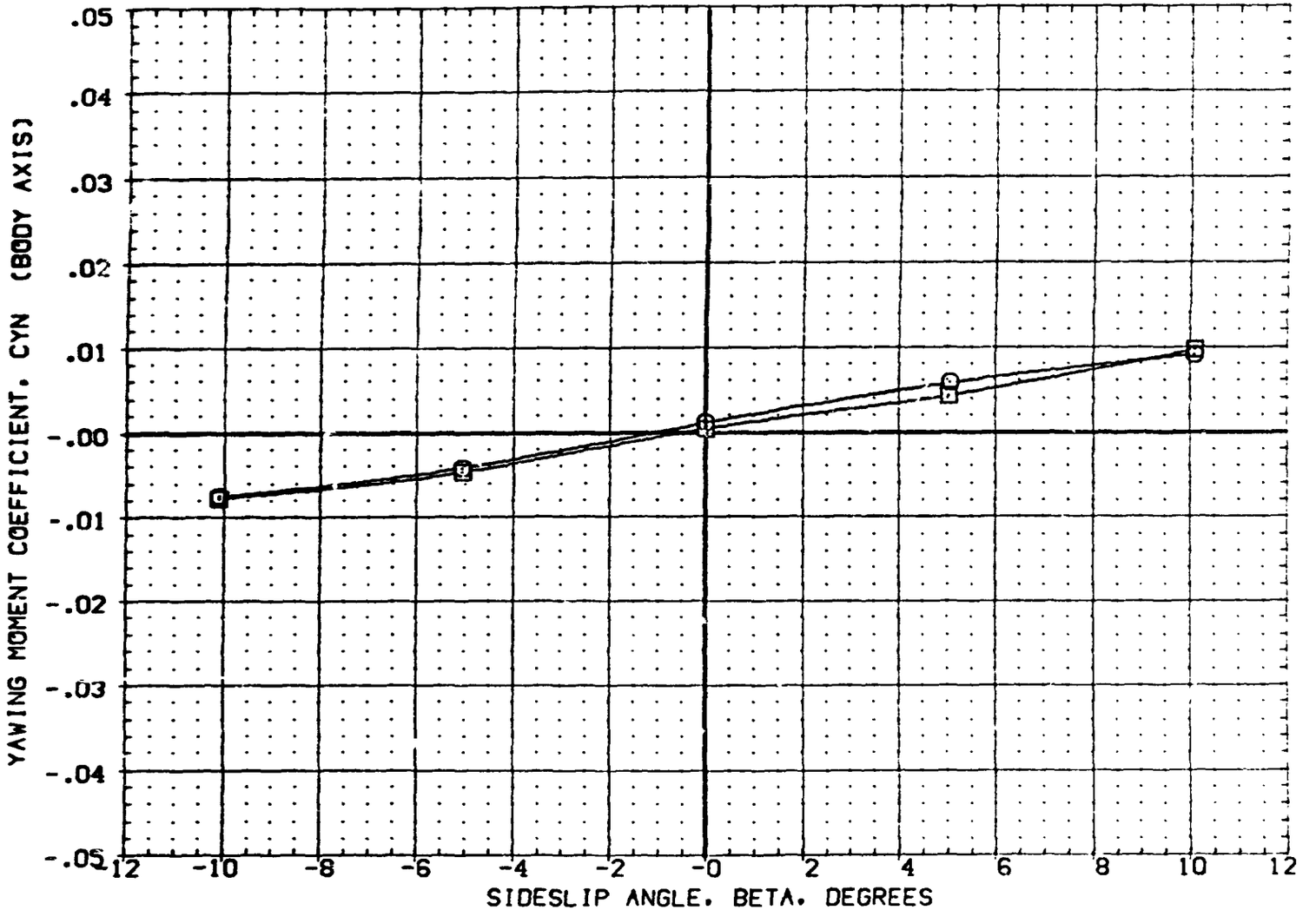
LATERAL-DIRECTIONAL CHARACTERISTICS -89B FERRY CONFIG. - ABPS OFF

(A)MACH = 0.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVON	AILRON
(RDS002)		0A71A B16C5 D7 F1 V87E18V3R3X9	.000	.000	.000
(RDS003)		0A71A B16C5 D7 F1 V87E18V3R3X9	10.000	.000	.000

REFERENCE INFORMATION

SREF	4.4122	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9349	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

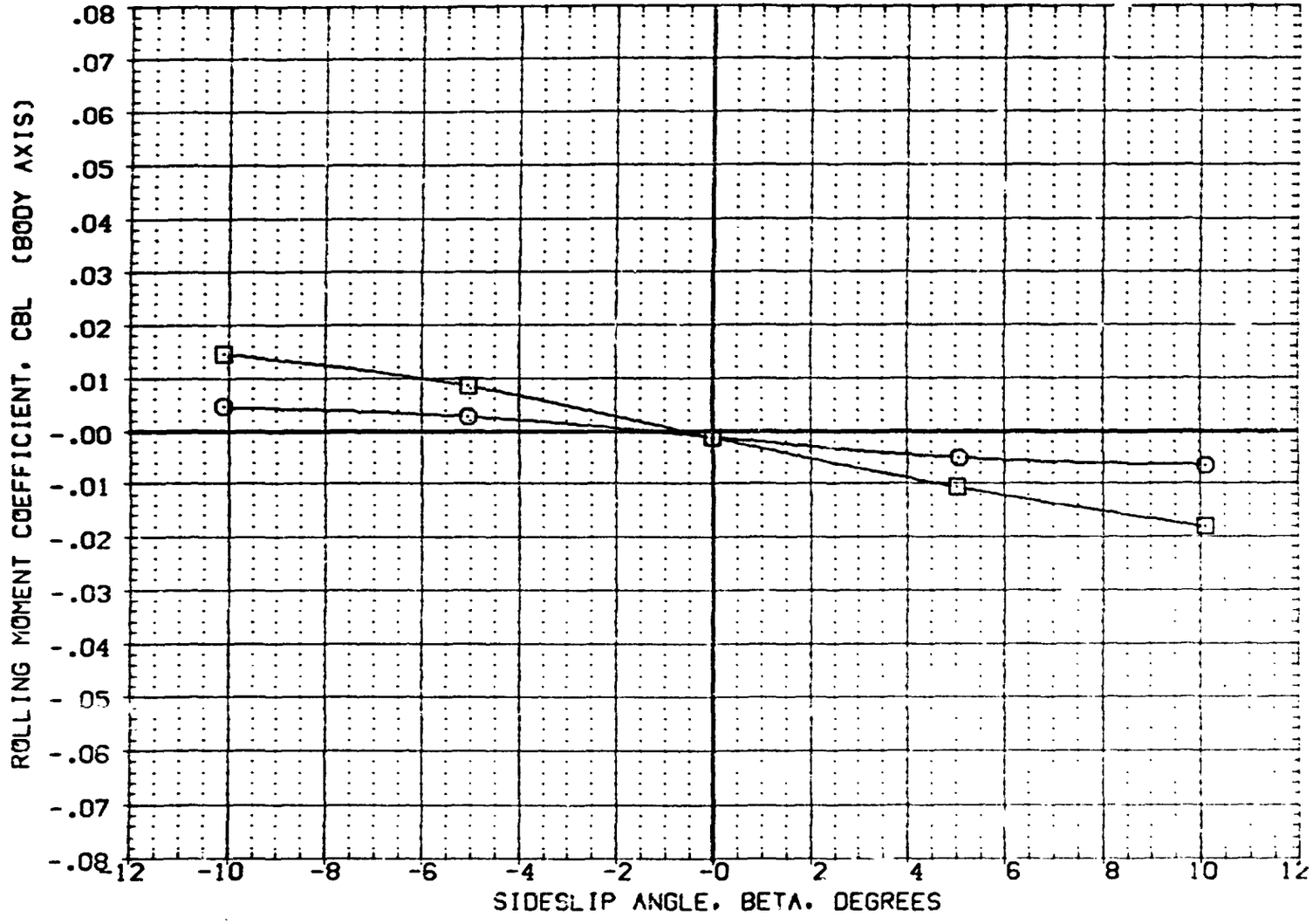


LATERAL-DIRECTIONAL CHARACTERISTICS -89B FERRY CONFIG. - ABPS OFF

(A)MACH = 0.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVON	AILRON
(RDS002)	8	0A71A B16C5 D7 F1 W87E18V3R3X9	.000	.000	.000
(RDS003)	□	0A71A B16C5 D7 F1 W87E18V3R3X9	10.000	.000	.000

REFERENCE INFORMATION		
SREF	4.4122	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9349	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE



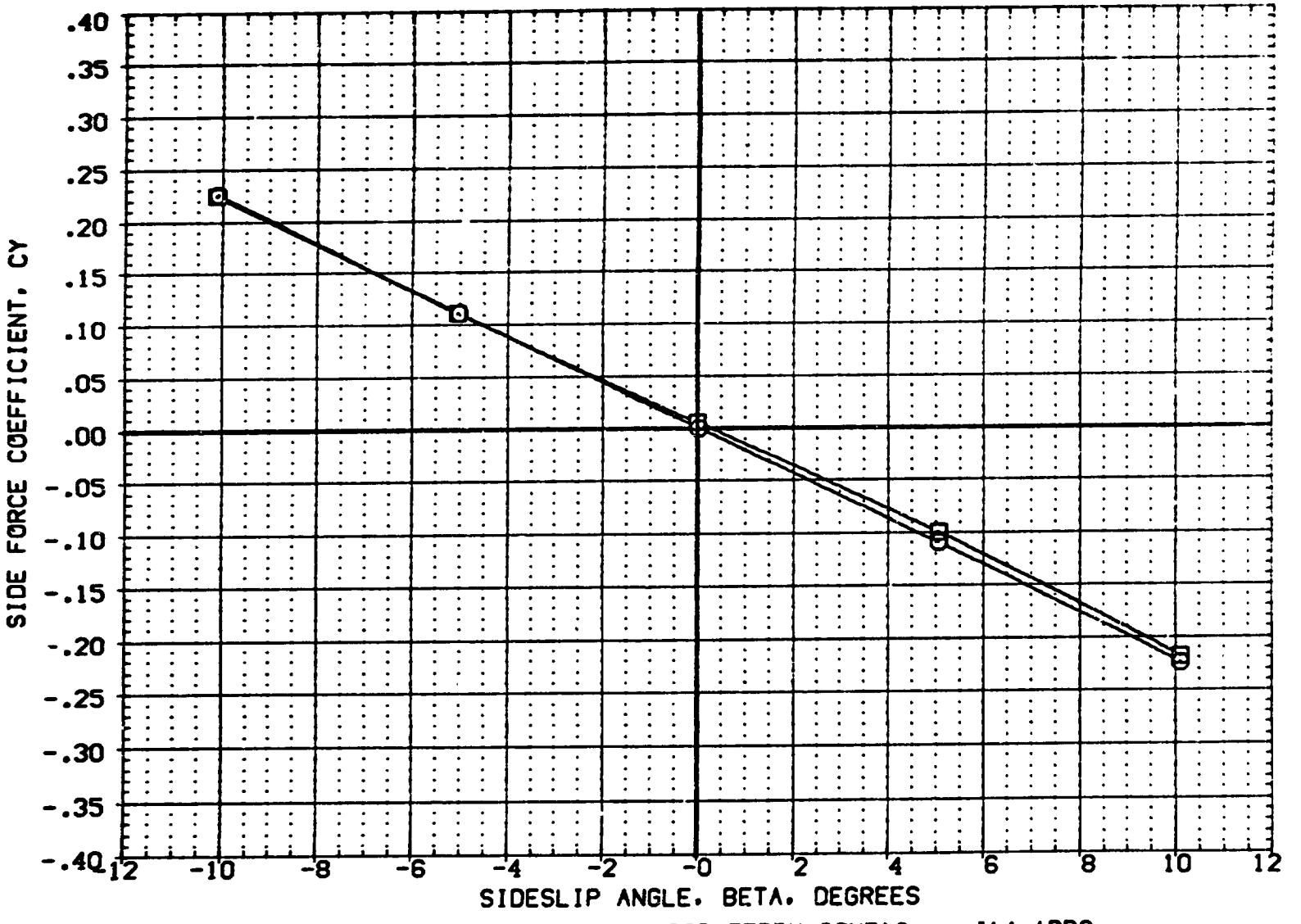
LATERAL-DIRECTIONAL CHARACTERISTICS -89B FERRY CONFIG. - ABPS OFF

(A)MACH = 0.20

DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(R09020)	8	0A71A B16C5 D7 F1J14W87 E18V3R3X10
(R09021)	□	0A71A B16C5 D7 F1J14W87 E18V3R3X10

ALPHA	ELEVON	AILRON	MACH/L
.000	.000	.000	.000
10.000	.000	.000	.000

REFERENCE INFORMATION		
SREF	4.4122	SQ FT.
LREF	19.2299	INCHES
BREF	37.9349	INCHES
XMRP	43.5574	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

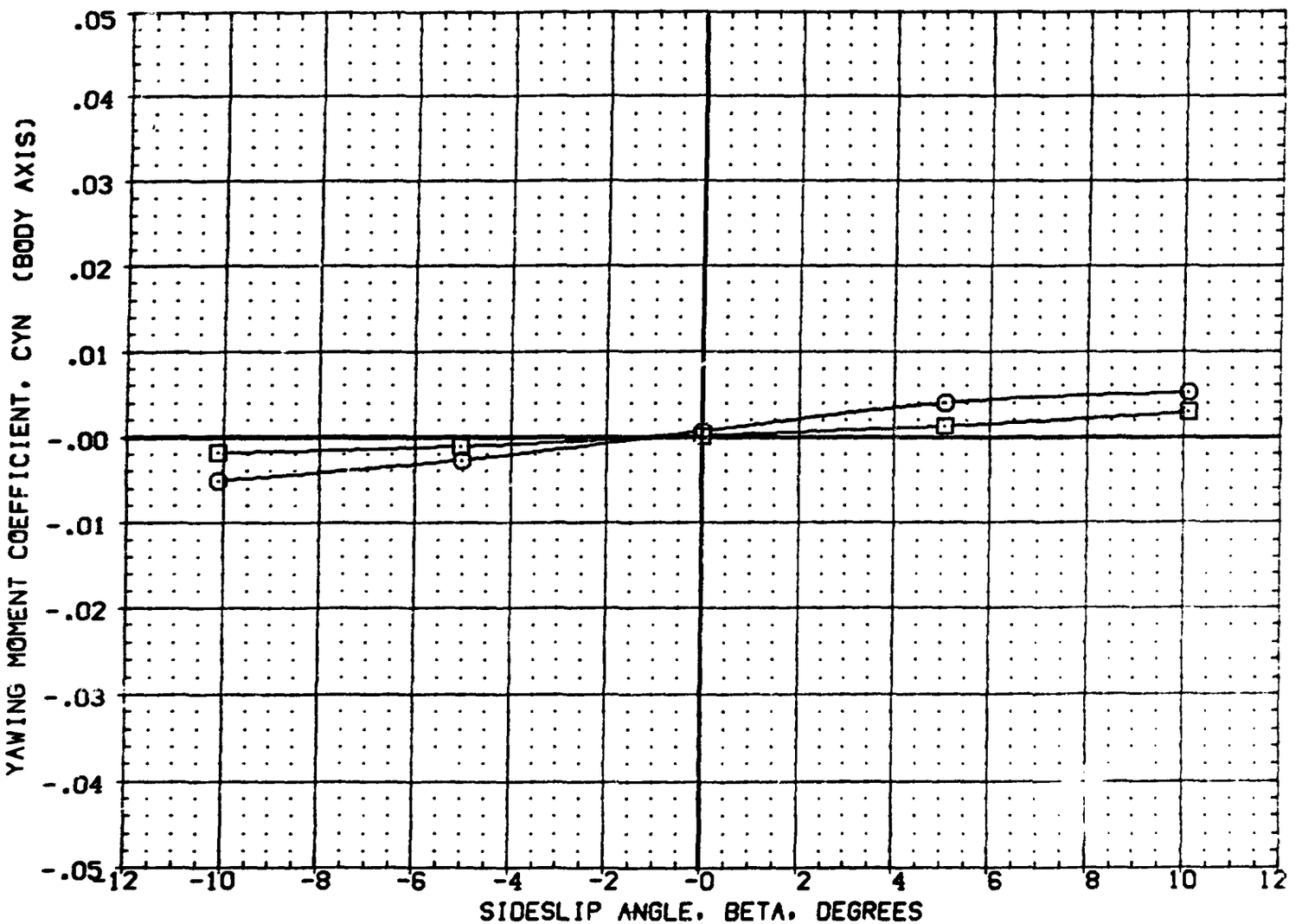


LATERAL-DIRECTIONAL CHARACTERISTICS -89B FERRY CONFIG. - J14 ABPS

(A)MACH = 0.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVON	AILRON	NACX/L
(RDS020)	○	0A71A B16C5 07 F1J14V87 E18V3R3X10	.000	.000	.000	.000
(RDS021)	□	0A71A B16C5 07 F1J14V87 E18V3R3X10	10.000	.000	.000	.000

REFERENCE INFORMATION		
SREF	4.4122	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9349	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

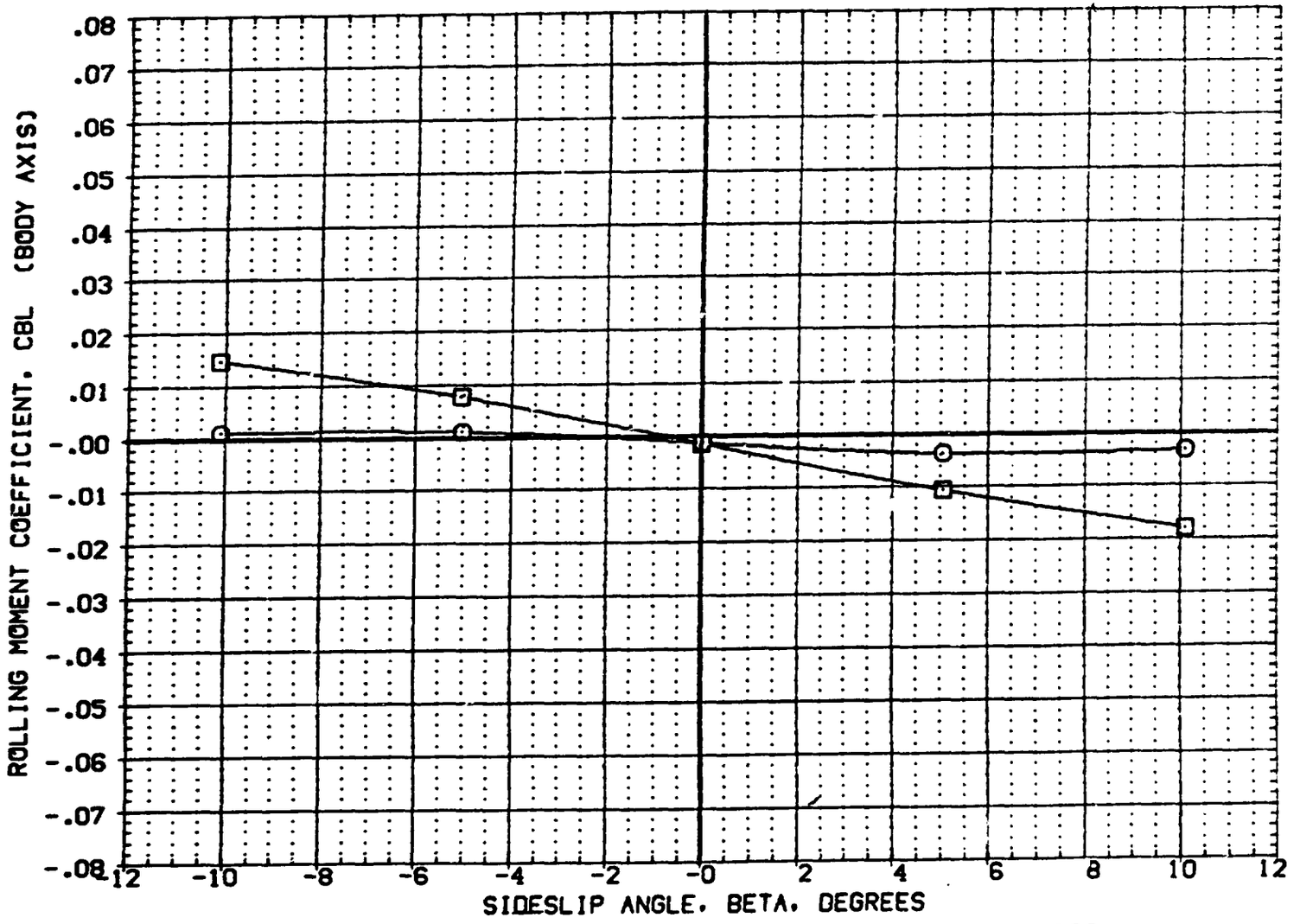


LATERAL-DIRECTIONAL CHARACTERISTICS -89B FERRY CONFIG. - J14 ABPS

(A)MACH = 0.20

DATA SET SYMBOL		CONFIGURATION DESCRIPTION	ALPHA	ELEVON	AILRON	NACX/L
(RDS020)	○	0A71A B16C5 D7 F1J14V87 E18V3R3X10	.000	.000	.000	.000
(RDS021)	□	0A71A B16C5 D7 F1J14V87 E18V3R3X10	10.000	.000	.000	.000

REFERENCE INFORMATION		
SREF	4.4122	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9349	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

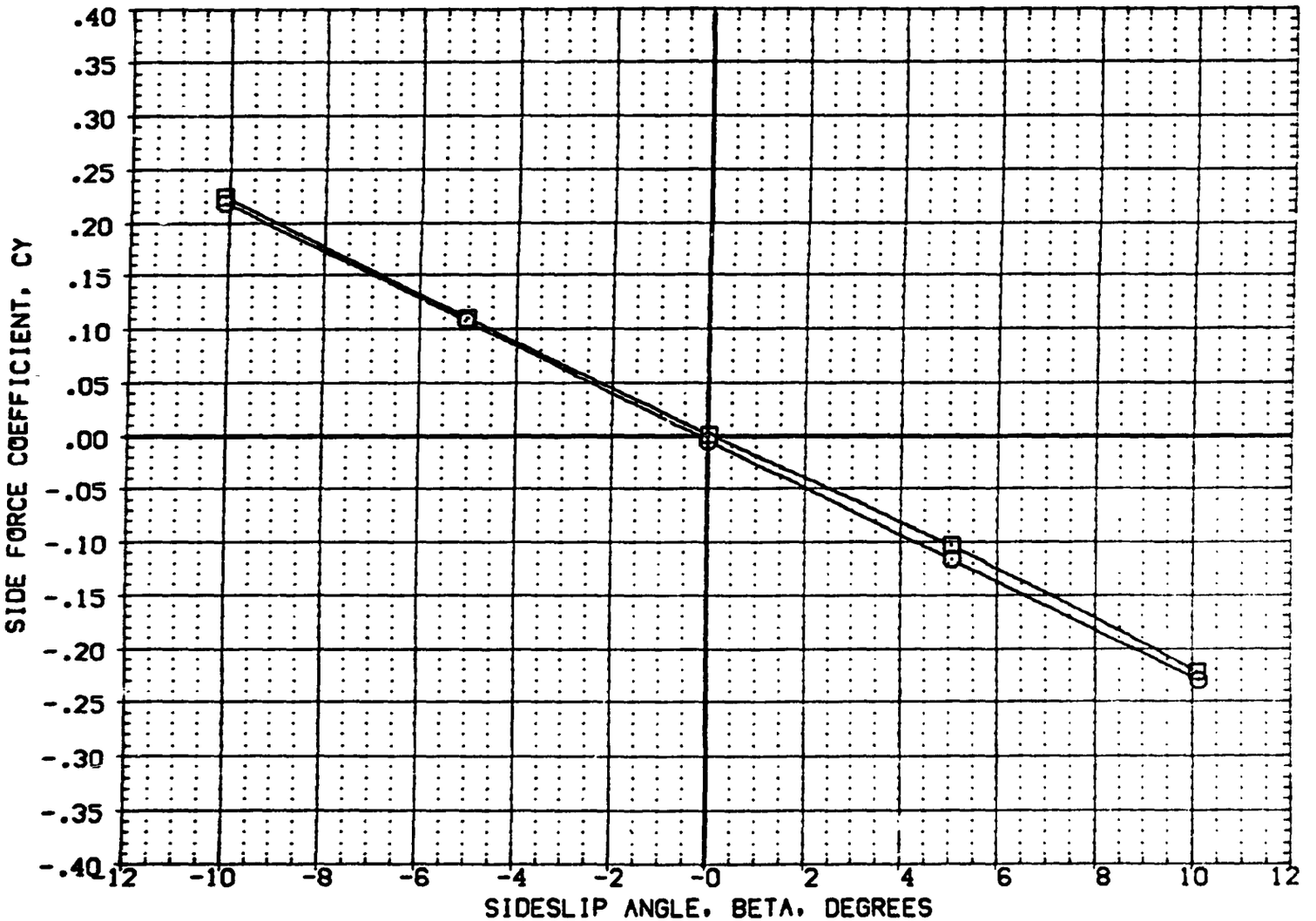


LATERAL-DIRECTIONAL CHARACTERISTICS -89B FERRY CONFIG. - J14 ABPS

(A)MACH = 0.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVON	AILRON	NACX/L
(RDS024)		0A71A B16C5 07 F1J14V87 E18V3R3X10	.000	.000	.000	.200
(RDS025)		0A71A B16C5 07 F1J14V87 E18V3R3X10	10.000	.000	.000	.200

REFERENCE INFORMATION		
SREF	4.4122	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9349	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE



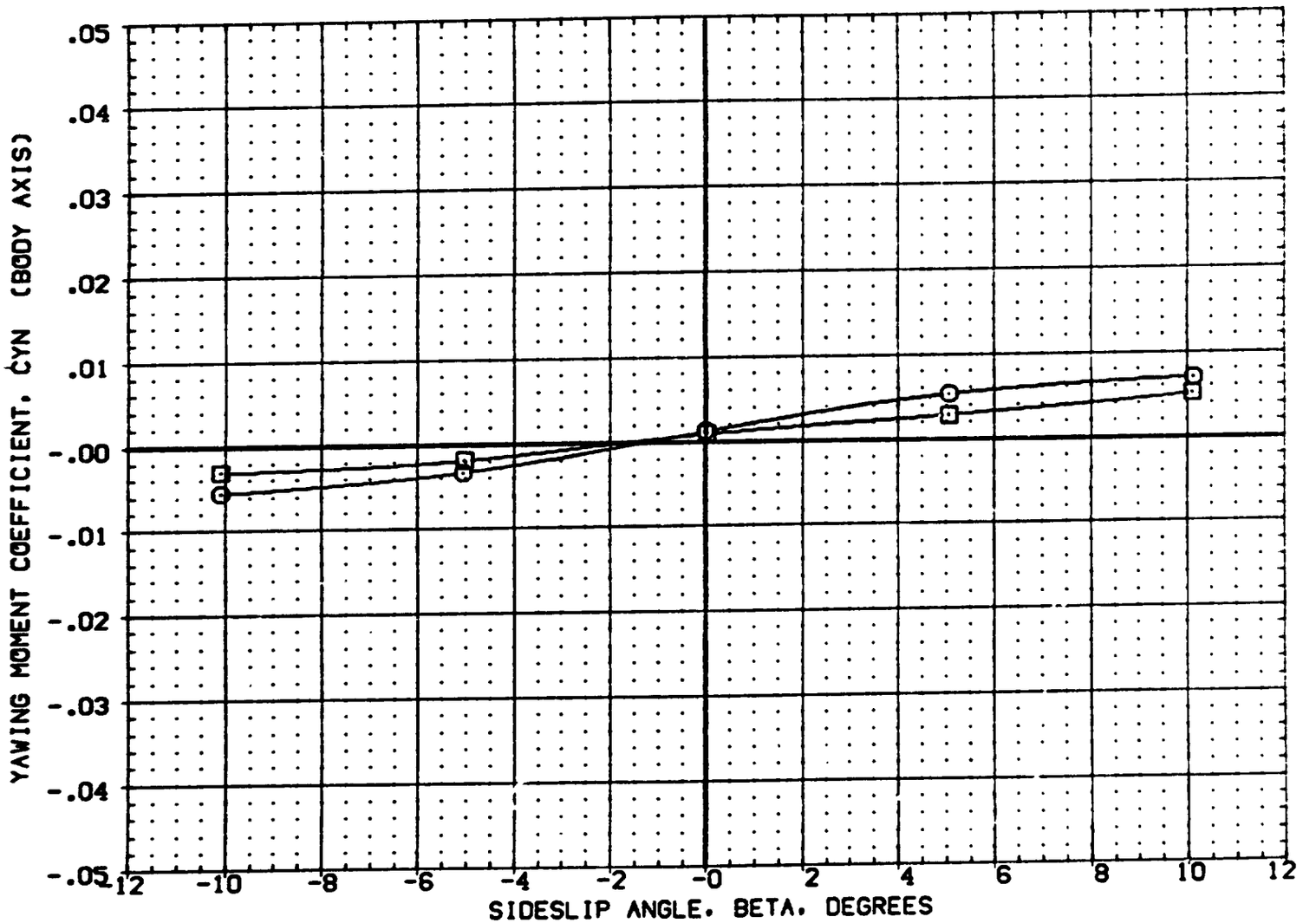
LATERAL-DIRECTIONAL CHARACTERISTICS -89B FERRY CONFIG. - J14 ABPS MOVED AFT

(A)MACH = 0.20

DATA SET SYMBOL		CONFIGURATION DESCRIPTION	ALPHA	ELEVON	AILRON	NACX/L
(RDS024)	○	0A71A B16C5 D7 F1J14V87 E18V3R3X10	.000	.000	.000	.200
(RDS025)	□	0A71A B16C5 D7 F1J14V87 E18V3R3X10	10.000	.000	.000	.200

REFERENCE INFORMATION

SREF	4.4122	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9349	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

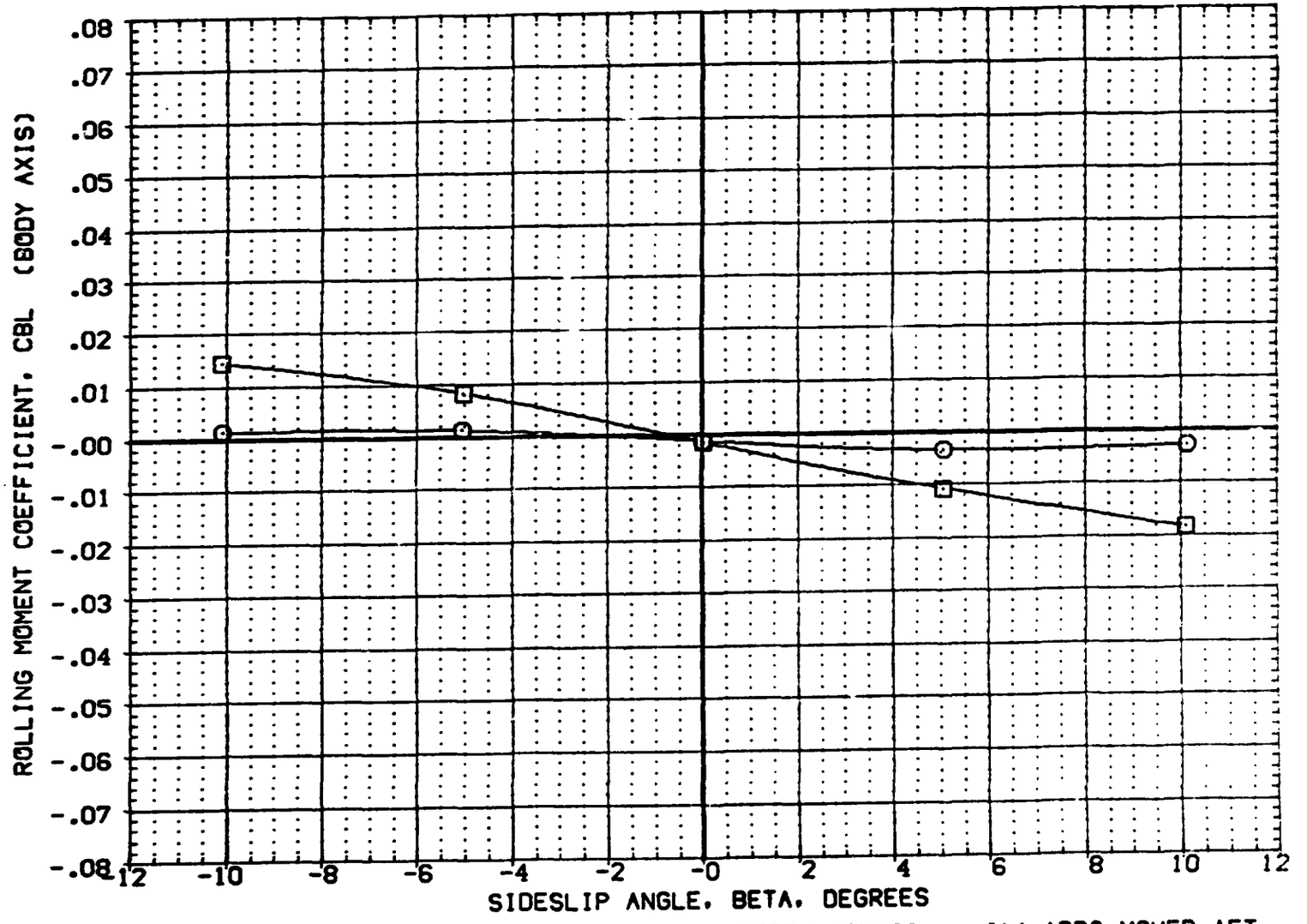


LATERAL-DIRECTIONAL CHARACTERISTICS -89B FERRY CONFIG. - J14 ABPS MOVED AFT

(A)MACH = 0.20

DATA SET SYMBOL		CONFIGURATION DESCRIPTION	ALPHA	ELEVON	AILRON	NACX/L
(RDS024)	○	0A71A B16C5 D7 F1J14V87 E18V3R3X10	.000	.000	.000	.200
(RDS025)	□	0A71A B16C5 D7 F1J14V87 E18V3R3X10	10.000	.000	.000	.200

REFERENCE INFORMATION		
SREF	4.4122	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9349	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

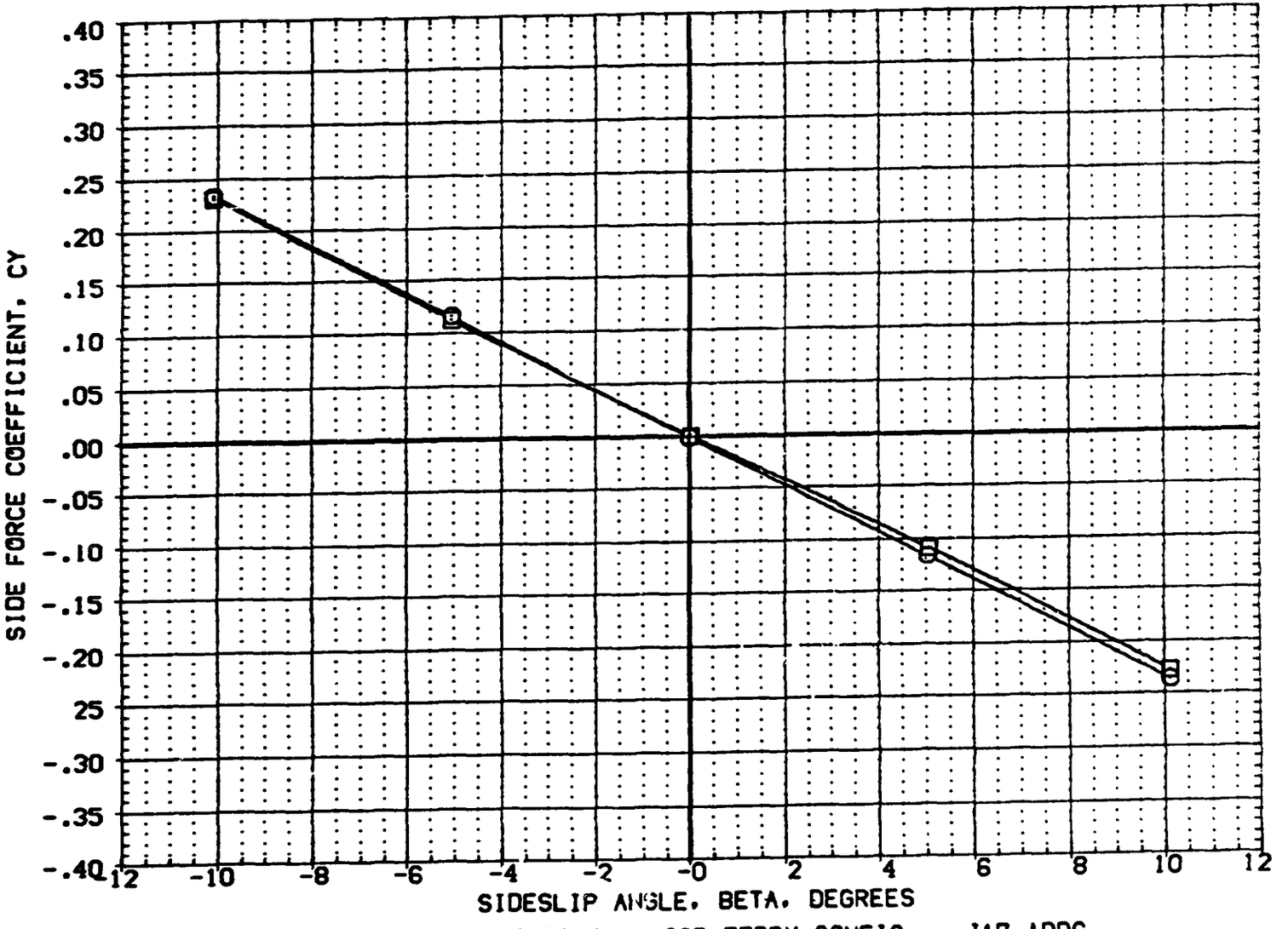


LATERAL-DIRECTIONAL CHARACTERISTICS -89B FERRY CONFIG. - J14 ABPS MOVED AFT

(A)MACH = 0.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVON	AILRON	NACX/L
(RDS047)	0A71A B16C5 07 F1J17V87 E18V3R3X10	.000	.000	.000	.000
(RDS048)	0A71A B16C5 07 F1J17V87 E18V3R3X10	10.000	.000	.000	.000

REFERENCE INFORMATION		
SREF	4.4122	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9349	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE



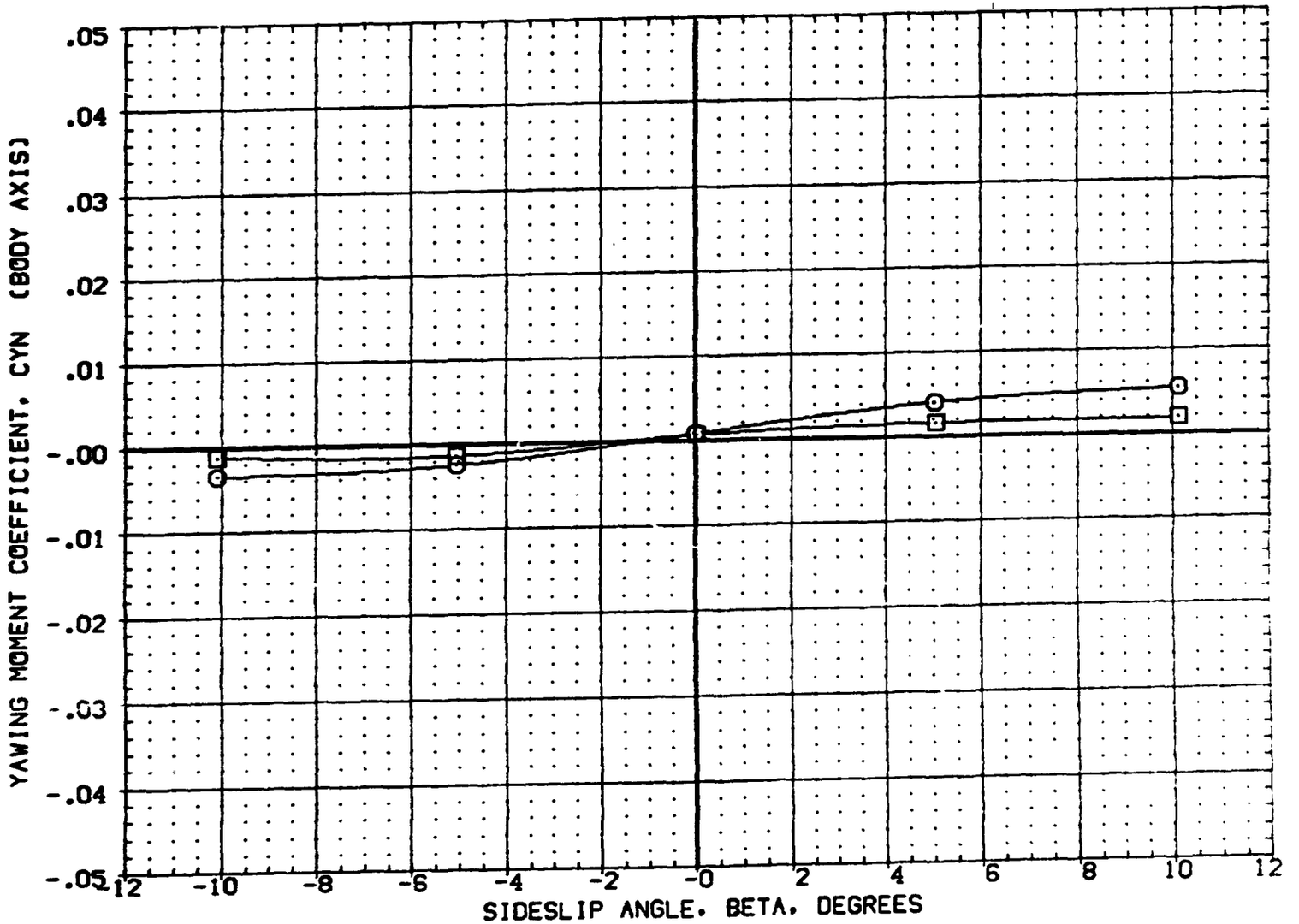
LATERAL-DIRECTIONAL CHARACTERISTICS -89B FERRY CONFIG. - J17 ABPS

(A)MACH = 0.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RDS047)	8	0A71A B16C5 D7 F1J17V87 E18V3R3X10
(RDS048)	8	0A71A B16C5 D7 F1J17V87 E18V3R3X10

ALPHA	ELEVON	AILRON	NACX/L
.000	.000	.000	.000
10.000	.000	.000	.000

REFERENCE INFORMATION		
SREF	4.4122	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9349	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

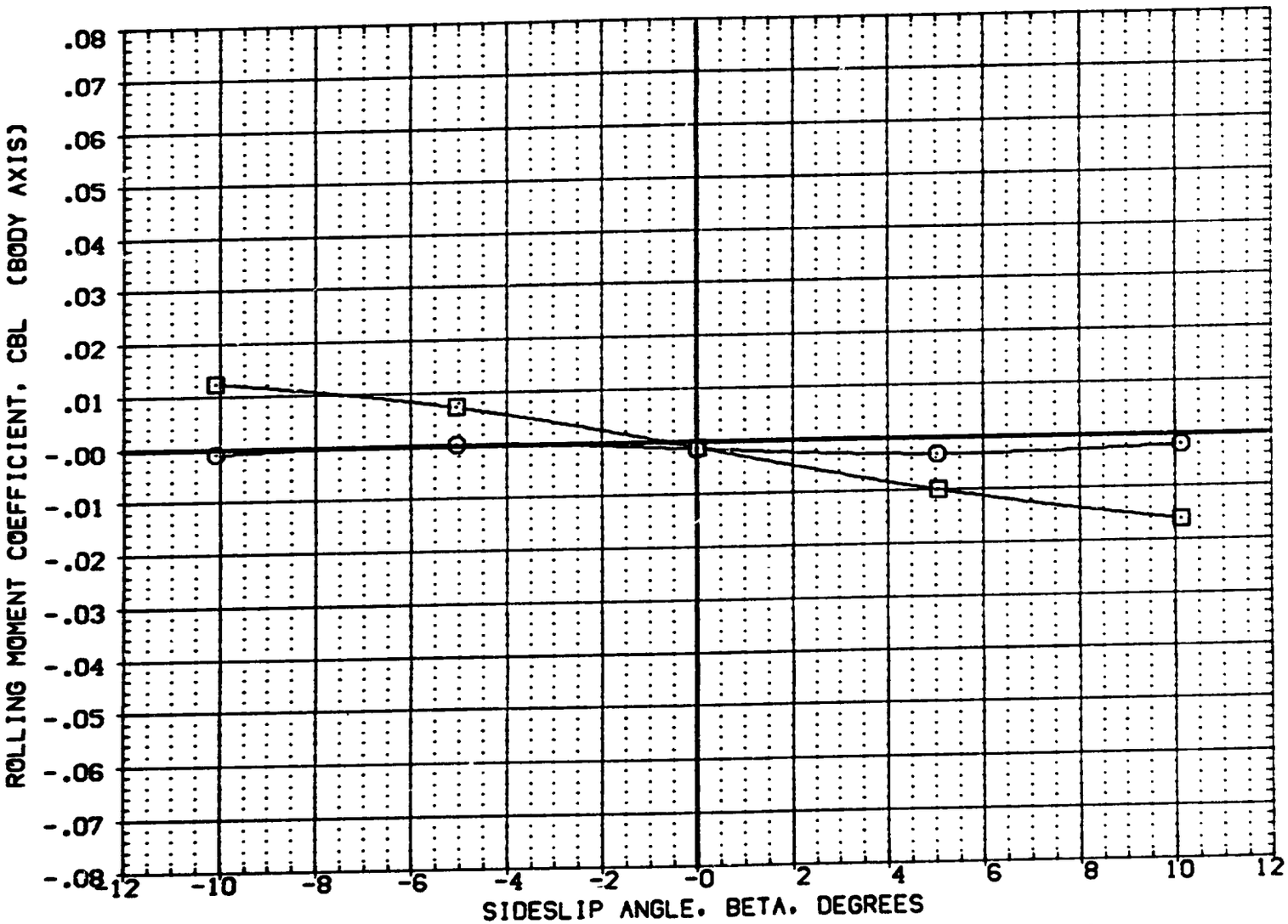


LATERAL-DIRECTIONAL CHARACTERISTICS -89B FERRY CONFIG. - J17 ABPS

(A)MACH = 0.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVON	AILRON	NACX/L
[RDS047]	0A71A B16C5 D7 F1J17V87 E18V3R3X10	.000	.000	.000	.000
[RDS048]	0A71A B16C5 D7 F1J17V87 E18V3R3X10	10.000	.000	.000	.000

REFERENCE INFORMATION		
SREF	4.4122	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9349	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE



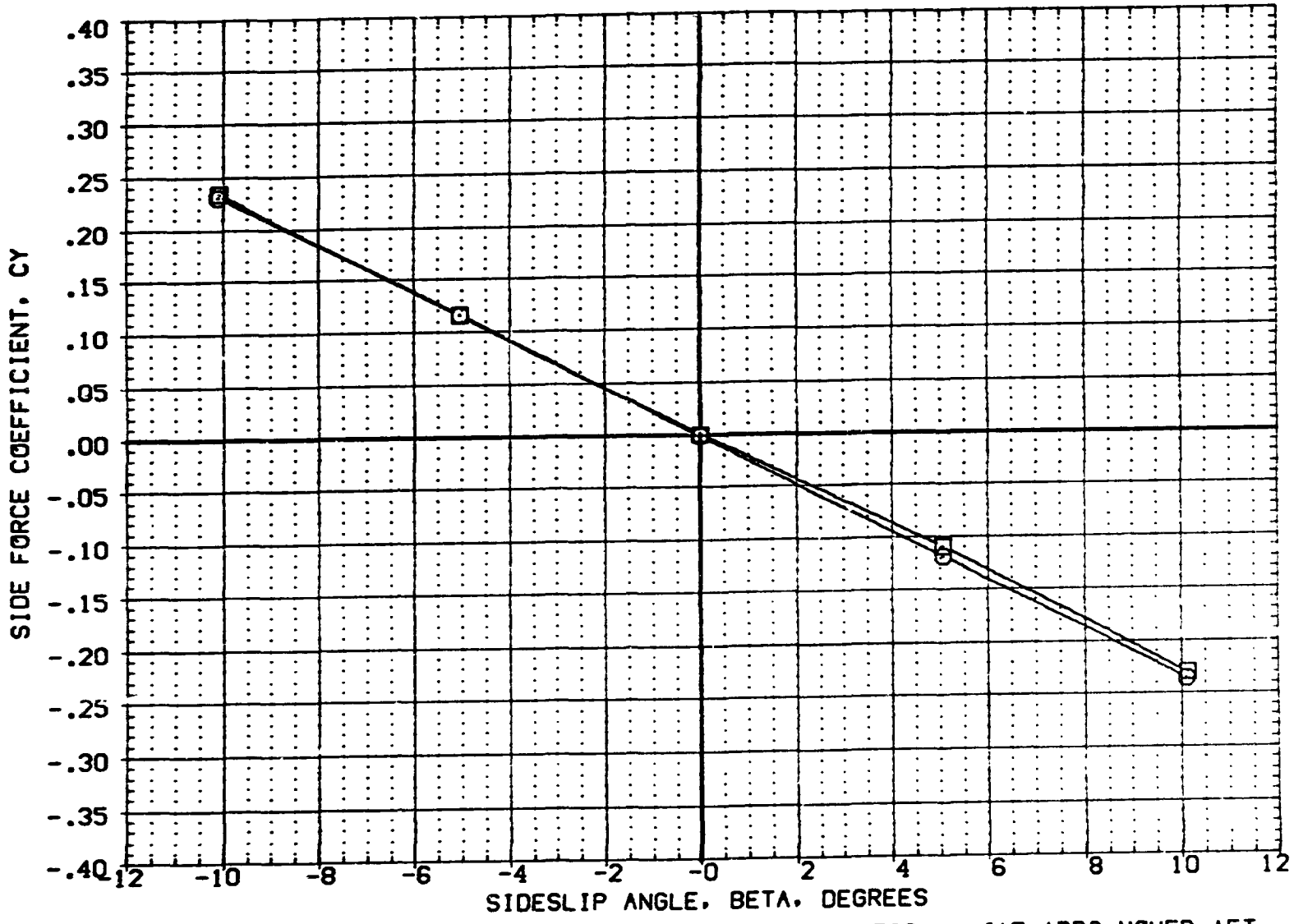
LATERAL-DIRECTIONAL CHARACTERISTICS -89B FERRY CONFIG. - J17 ABPS

(A)MACH = 0.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RDS044)	○	0A71A B16C5 D7 F1J17V87 E18V3R3X10
(RDS045)	□	0A71A B16C5 D7 F1J17V87 E18V3R3X10

ALPHA	ELEVON	AILRON	NACX/L
.000	.000	.000	.200
10.000	.000	.000	.200

REFERENCE INFORMATION		
SREF	4.4122	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9349	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

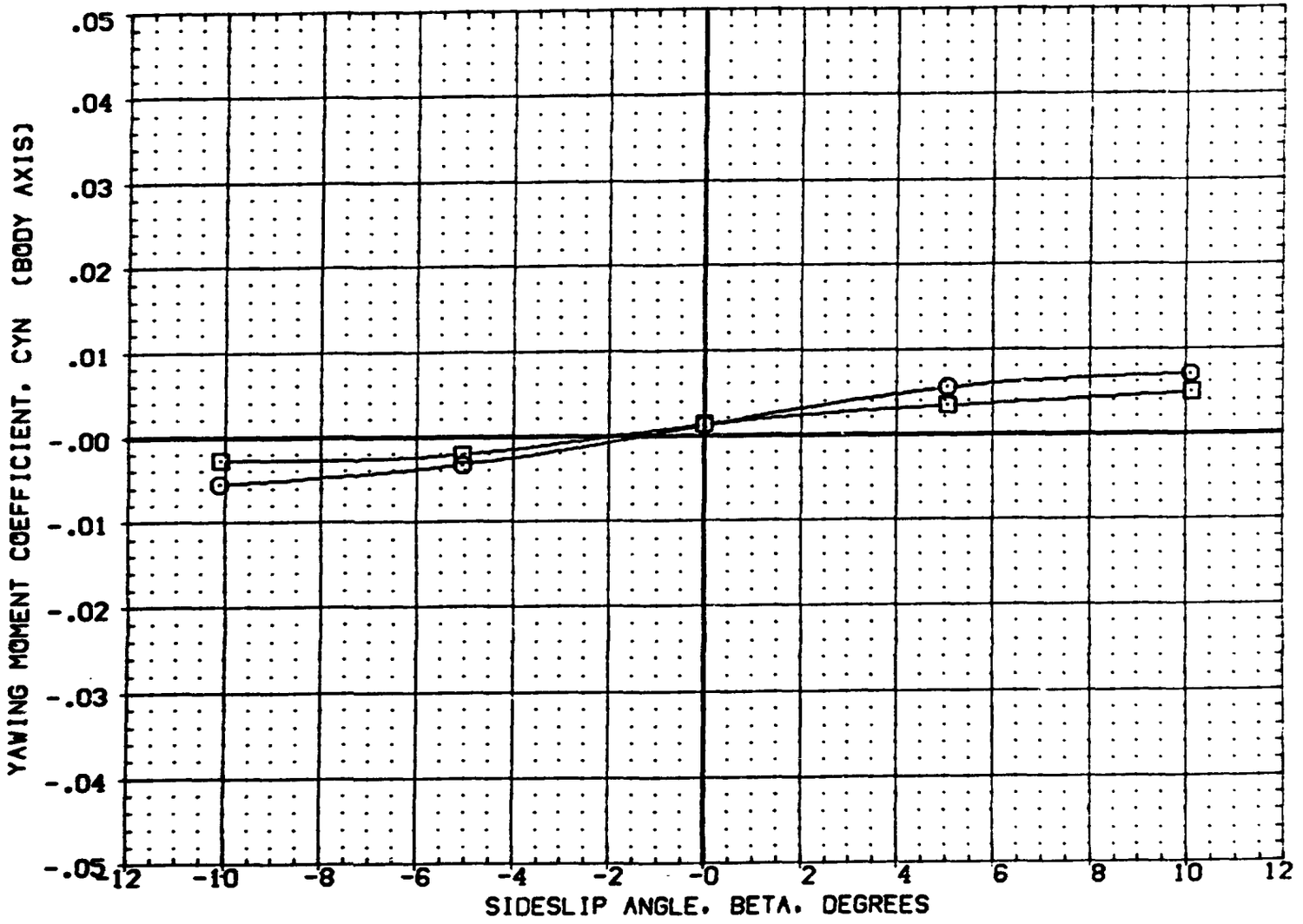


LATERAL-DIRECTIONAL CHARACTERISTICS -89B FERRY CONFIG. - J17 ABPS MOVED AFT

(A)MACH = 0.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVON	AILRON	NACX/L
(RDS044)	○	0A71A B16C5 D7 F1J17V87 E18V3R3X10	.000	.000	.000	.200
(RDS045)	□	0A71A B16C5 D7 F1J17V87 E18V3R3X10	10.000	.000	.000	.200

REFERENCE INFORMATION		
SREF	4.4122	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9349	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.040E	SCALE

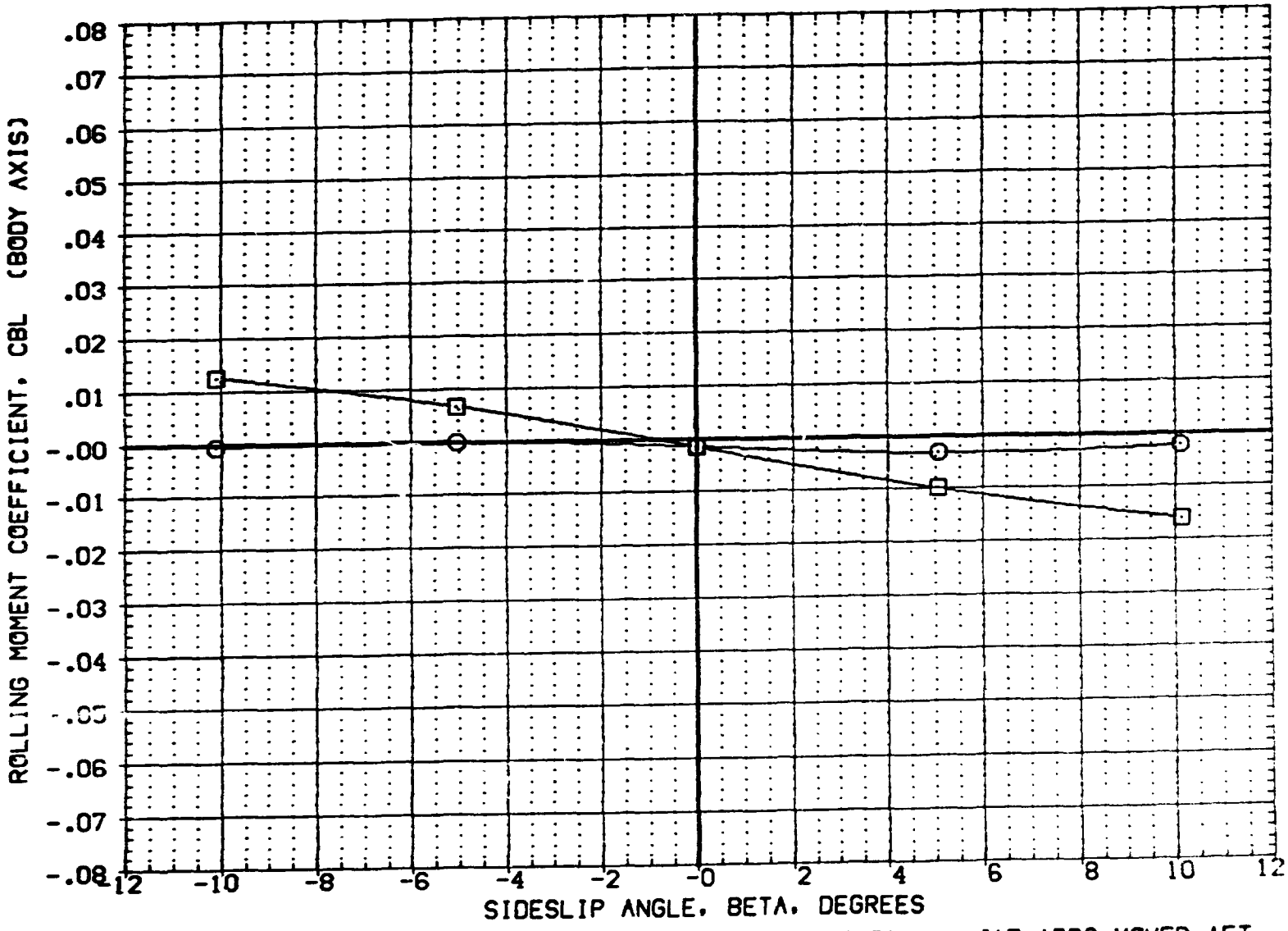


LATERAL-DIRECTIONAL CHARACTERISTICS -89B FERRY CONFIG. - J17 ABPS MOVED AFT

(A)MACH = 0.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVON	AILRON	NACX/L
(RDS044)	○	0A71A B16C5 D7 F1J17V87 E18V3R3X10	.000	.000	.000	.200
(RDS045)	□	0A71A B16C5 D7 F1J17V87 E18V3R3X10	10.000	.000	.000	.200

REFERENCE INFORMATION		
SREF	4.4122	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9349	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE



LATERAL-DIRECTIONAL CHARACTERISTICS -89B FERRY CONFIG. - J17 ABPS MOVED AFT

(A)MACH = 0.20

APPENDIX

TABULATED SOURCE DATA

Plotted data listings are available on request from Data Management System.

OA71A B16C5 D7 F1 W87E18V3R3X9 (RDS001) (10 OCT 73)

REFERENCE DATA

SREF =	4.4122 SQ.FT.	XMRP =	43.5974 INCHES		
LREF =	19.2299 INCHES	YMRP =	.0000 INCHES		
BREF =	37.9349 INCHES	ZMRP =	16.2000 INCHES		
SCALE =	.0405 SCALE				

PARAMETRIC DATA

BETA =	.000	DOFLAP =	-18.000
ELEVON =	.000	AILRON =	.000
VTLINC =	.000	RUDDER =	.000
SPOBRK =	.000		

RUN NO. 1/ 0 RN/L = 1.44 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.201	-4.070	-.10720	.02680	.00800	-.10890	.01920	.00120	-.00120	-.00200	.68600	.01407
.201	-2.000	-.01350	.02300	.00770	-.01430	.02257	.00100	-.00120	-.00200	.85300	.01540
.201	-.970	.03750	.02240	.00790	.03710	.02312	.00100	-.00140	-.00190	.58300	.01628
.201	.070	.08280	.02460	.00800	.08280	.02451	.00090	-.00100	-.00100	.62500	.01466
.201	1.060	.12990	.02580	.00810	.13040	.02334	.00070	-.00130	.00000	.63700	.01522
.201	2.110	.17830	.02790	.00840	.17930	.02134	.00070	-.00120	.00000	.64300	.01507
.201	4.170	.27510	.03420	.00810	.27490	.01424	.00060	-.00130	.00000	.64900	.01575
.201	6.250	.36550	.04490	.00690	.36820	.00486	.00040	-.00140	.00100	.65300	.01484
.201	8.320	.46580	.06020	.00690	.46960	-.00780	.00050	-.00110	.00200	.65400	.01574
.201	10.370	.56770	.08300	.00650	.57330	-.02058	.00060	-.00060	.00200	.65500	.01615
.201	12.470	.68060	.11450	.00270	.68930	-.03522	.00010	-.00110	.00200	.65800	.01749
.201	14.570	.80200	.15840	-.00450	.81600	-.04845	.00050	-.00190	.00200	.66100	.01858
.201	16.650	.92470	.22330	-.01550	.94990	-.05112	.00120	-.00060	.00200	.66500	.02316
.201	18.720	1.01920	.29300	-.02120	1.05940	-.04970	.00110	.00000	.00300	.66700	.02674
.201	20.830	1.13710	.38470	-.03710	1.19960	-.04490	.00210	-.00240	.00500	.67100	.03018
.201	22.900	1.21560	.46480	-.03780	1.30070	-.04502	.00070	-.00710	.01200	.67000	.03310
.201	24.970	1.26640	.53500	-.02520	1.37390	-.04980	.00340	-.00620	.00600	.66600	.03981
.201	26.950	1.16530	.54200	.02980	1.28440	-.04497	.00310	.00220	-.00200	.65100	.05118
.201	28.890	1.11330	.57190	.05840	1.25100	-.03720	.00230	.00490	-.00900	.64300	.06082
.201	30.910	1.10410	.62120	.06820	1.26640	-.03423	.00020	.00280	.00100	.64000	.06486
	GRADIENT	.04620	.00099	.00005	.04663	-.00051	-.00008	-.00001	.00030	-.01189	.00012

OA71A B16C5 D7 F1 W87E18V3R3X9 (RDS002) (10 OCT 73)

REFERENCE DATA

SREF =	4.4122 SQ.FT.	XMRP =	43.5974 INCHES		
LREF =	19.2299 INCHES	YMRP =	.0000 INCHES		
BREF =	37.9349 INCHES	ZMRP =	16.2000 INCHES		
SCALE =	.0405 SCALE				

PARAMETRIC DATA

ALPHA =	.000	DOFLAP =	-18.000
ELEVON =	.000	AILRON =	.000
VTLINC =	.000	RUDDER =	.000
SPOBRK =	.000		

RUN NO. 2/ 0 RN/L = 1.44 GRADIENT INTERVAL = -6.00/ 6.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.201	-10.090	.09660	.01470	-.00360	.09660	.01461	-.00760	.00460	.18400	.67300	.01787
.201	-5.050	.08770	.02080	.00360	.08770	.02013	-.00420	.00280	.09200	.64500	.01619
.201	.000	.08210	.02480	.00847	.08220	.02473	.00110	-.00120	.00000	.62200	.01495
.201	5.050	.08550	.02040	.00357	.08550	.02037	.00570	-.00510	-.00000	.64500	.01663
.201	10.100	.09180	.01210	-.00420	.09180	.01203	.00910	-.00650	-.18400	.67600	.02030
	GRADIENT	-.00022	-.00004	-.00001	-.00022	-.00004	.00098	-.00078	-.01842	.00001	.00004

OA71A B16C5 D7 F1 W87E18V3R3X9 (RDS003) (10 OCT 73)

REFERENCE DATA

SREF =	4.4122 SQ.FT.	XMRP =	43.9974 INCHES		
LREF =	19.2299 INCHES	YMRP =	.0000 INCHES		
BREF =	37.9349 INCHES	ZMRP =	16.2000 INCHES		
SCALE =	.0405 SCALE				

PARAMETRIC DATA

ALPHA =	10.000	BDFLAP =	-10.000
ELEVON =	.000	AILRON =	.000
VTLINC =	.000	RUDDER =	.000
SPDBRK =	.000		

RUN NO. 3/ 0 RN/L = 1.44 GRADIENT INTERVAL = -6.00/ 6.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.201	-10.110	.57990	.07740	-.00550	.58440	-.02659	-.00780	.01460	.19100	.66300	.02026
.201	-5.050	.57160	.08100	.00120	.57690	-.02353	-.00470	.00650	.09400	.65900	.01700
.201	-.010	.57100	.08440	.00560	.57690	-.02008	.00040	-.00130	.00300	.65600	.01651
.201	5.040	.57040	.08260	.00090	.57600	-.02196	.00430	-.01070	-.08700	.65900	.01769
.201	10.090	.57390	.07750	-.00490	.57610	-.02734	.00960	-.01820	-.19000	.66300	.02074
	GRADIENT	-.00012	.00018	-.00005	-.00009	.00016	.00089	-.00190	-.01794	.00000	.00007

OA71A B16C5 D7 F1 W87C18V3R3X9 (RDS004) (10 OCT 73)

REFERENCE DATA

SREF =	4.4122 SQ.FT.	XMRP =	43.9974 INCHES		
LREF =	19.2299 INCHES	YMRP =	.0000 INCHES		
BREF =	37.9349 INCHES	ZMRP =	16.2000 INCHES		
SCALE =	.0405 SCALE				

PARAMETRIC DATA

BETA =	.000	BDFLAP =	-10.000
ELEVON =	5.000	AILRON =	.000
VTLINC =	.000	RUDDER =	.000
SPDBRK =	.000		

RUN NO. 4/ 0 RN/L = 1.44 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.201	-4.010	.00480	.02920	-.04280	.00290	.02547	.00120	-.00130	-.00200	5.91600	.01787
.201	-1.940	.09940	.02560	-.04390	.09850	.02897	.00110	-.00130	.00000	.81900	.01807
.201	-.910	.14700	.02750	-.04420	.14660	.02986	.00060	-.00120	.00000	.78700	.01790
.201	.110	.19350	.02970	-.04370	.19350	.02935	.00090	-.00130	.00000	.74000	.01769
.201	1.140	.24160	.03300	-.04420	.24220	.02821	.00090	-.00130	.00000	.72500	.01783
.201	2.200	.28860	.03660	-.04420	.28980	.02552	.00070	-.00130	.00000	.71400	.01815
.201	4.240	.37860	.04660	-.04350	.38100	.01873	.00060	-.00140	.0010	.70000	.01700
.201	6.320	.47430	.06020	-.04420	.47800	.00764	.00050	-.00110	.0010	.69300	.01790
.201	8.390	.57010	.07970	-.04440	57570	-.00437	.00070	-.00080	.00000	.68700	.01740
.201	10.460	.67830	.10770	-.04630	.7660	-.01726	.00050	-.00090	.00200	.68400	.01784
.201	12.530	.79070	.14260	-.04980	.80290	-.03227	.00010	-.00120	.00300	.68200	.01953
.201	14.630	.91260	.19090	-.05810	.93140	-.04587	.00060	-.00230	.00300	.68200	.02108
.201	16.730	1.03170	.26420	-.07000	1.06410	-.04494	.00040	-.00040	.00300	.68300	.02467
.201	18.820	1.12770	.34860	-.08110	1.17990	-.03389	.00170	-.00150	.00200	.68400	.03012
.201	20.920	1.24500	.43630	-.09340	1.31670	-.03719	.00160	-.00270	.00300	.68500	.03484
.201	22.960	1.33620	.52540	-.09400	1.43710	-.03682	.00040	-.00360	.00700	.68300	.03689
.201	25.040	1.36410	.58620	-.08680	1.46480	-.04450	.00150	-.00680	.01200	.67600	.04360
.201	26.940	1.18360	.55940	.01290	1.30670	-.03761	.00460	.00330	-.01100	.65600	.05700
.201	28.920	1.14260	.59510	.03380	1.28610	-.03181	.00290	.00060	-.01000	.65000	.06550
.201	30.940	1.13590	.64730	.04370	1.30710	-.02896	.00030	.00440	-.00400	.64800	.06844
	GRADIENT	.04544	.00263	-.00006	.04594	-.00082	-.00007	-.00001	.00020	-.40772	-.00006

OA71A B16C5 D7 F1 W87E18V3R3X9 (RDS005) (10 OCT 73)

REFERENCE DATA

SREF =	4.4122 SQ.FT.	XMRP =	43.5974 INCHES		
LREF =	19.2299 INCHES	YMRP =	.0000 INCHES		
BREF =	37.9349 INCHES	ZMRP =	16.2000 INCHES		
SCALE =	.0405 SCALE				

PARAMETRIC DATA

BETA =	.000	BOFLAP =	-10.000
ELEVON =	.000	AILRON =	5.000
VTLINC =	.000	RUDDER =	.000
SPDBRK =	.000		

RUN NO. 5/ 0 RN/L = 1.44 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.201	-4.070	-.10510	.02720	.00640	-.10660	.01973	.00450	.01900	-.02000	.68100	.01576
.201	-2.010	-.01110	.02450	.00620	-.01190	.02415	.00490	.01960	-.02100	.84600	.01637
.201	-.960	.03660	.02480	.00640	.03830	.02552	.00500	.01970	-.02200	.99900	.01580
.201	.060	.08790	.02520	.00680	.08800	.02516	.00500	.02000	-.02200	.63200	.01638
.201	1.060	.13260	.02730	.00680	.13330	.02480	.00510	.02030	-.02200	.64100	.01579
.201	2.100	.18130	.02870	.00720	.18220	.02201	.00510	.02050	-.02300	.64500	.01683
.201	4.170	.27450	.03610	.00720	.27640	.01604	.00550	.02070	-.02400	.65000	.01616
.201	6.250	.37190	.04660	.00680	.37460	.00582	.00540	.02110	-.02500	.65300	.01642
.201	8.340	.46880	.06260	.00680	.47290	-.00581	.00560	.02130	-.02500	.65400	.01642
.201	10.400	.57300	.08550	.00610	.57900	-.01933	.00570	.02170	-.02700	.65600	.01714
.201	12.480	.68570	.11720	.00270	.69490	-.03375	.00590	.02230	-.03000	.65800	.01837
.201	14.580	.80320	.16020	-.00330	.81770	-.04716	.00670	.02150	-.03100	.66100	.01921
.201	16.650	.92370	.22350	-.01440	.94900	-.05058	.00650	.02510	-.03700	.66500	.02163
.201	18.750	1.02620	.29880	-.02400	1.06970	-.04764	.00570	.02260	-.02900	.66800	.02583
.201	20.830	1.13890	.38460	-.03820	1.20120	-.04544	.00550	.02010	-.03000	.67100	.03038
.201	22.910	1.22000	.46170	-.03530	1.30350	-.04964	.00380	.01430	-.01900	.66900	.03319
.201	24.950	1.28680	.54230	-.03050	1.39720	-.05210	.00290	.00850	-.01200	.66700	.03922
.201	26.910	1.19610	.55290	.02570	1.31680	-.04850	.00590	.00250	-.00600	.65300	.05072
.201	28.900	1.10990	.57210	.05990	1.24820	-.03553	.00130	.01570	-.01600	.64200	.05874
.201	30.890	1.11210	.62410	.06800	1.27470	-.03555	-.00350	.01590	-.00600	.64000	.06316
	GRADIENT	.04621	.00107	.00013	.04665	-.00046	.00009	.00021	-.00046	-.01124	.00006

OA71A B16C5 D7 F1 W87E18V3R3X9 (RCS006) (10 OCT 73)

REFERENCE DATA

SREF = 4.4122 SQ.FT. XMRP = 43.5974 INCHES
LREF = 19.2299 INCHES YMRP = .0000 INCHES
BREF = 37.9349 INCHES ZMRP = 16.2000 INCHES
SCALE = .0403 SCALE

PARAMETRIC DATA

BETA = .000 BDFLAP = -16.000
ELEVON = -10.000 AILRON = .000
VTLINC = .000 RUDDER = .000
SPDBRK = .000

RUN NO. 6/ 0 RN/L = 1.44 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.201	-4.170	-.30930	.04130	.09730	-.31150	.01869	.00160	-.00280	-.00300	.77100	.01065
.201	-2.110	-.21510	.03250	.09620	-.21620	.02458	.00150	-.00260	-.00400	.62200	.01119
.201	-1.060	-.16750	.02950	.09600	-.16800	.02643	.00140	-.00250	-.00300	.86800	.01118
.201	-.050	-.12050	.02790	.09860	-.12040	.02787	.00120	-.00230	-.00300	.95200	.01079
.201	.960	-.07410	.02610	.09930	-.07370	.02747	.00110	-.00250	-.00300	1.14200	.01122
.201	2.020	-.02600	.02520	.09960	-.02510	.02614	.00120	-.00240	-.00300	2.08200	.01111
.201	4.070	.06730	.02510	.10180	.06890	.02034	.00100	-.00210	-.00200	.13100	.01144
.201	6.100	.15930	.02880	.10310	.16150	.01156	.00100	-.00170	-.00100	.43100	.01147
.201	8.210	.25370	.03760	.10520	.25640	.00102	.00100	-.00130	-.00200	.51300	.01134
.201	10.280	.35310	.05230	.10690	.35680	-.01155	.00120	-.00140	-.00100	.55200	.01206
.201	12.370	.46190	.07560	.10580	.46740	-.02510	.00130	-.00160	-.00100	.57900	.01348
.201	14.480	.57620	.10870	.10160	.58700	-.03911	.00140	-.00160	.00000	.59800	.01521
.201	16.530	.69780	.15930	.09260	.71410	-.04580	.00500	.00070	-.00700	.61300	.01732
.201	18.630	.80950	.22550	.08300	.83910	-.04492	.00290	.00030	-.00200	.62400	.01955
.201	20.730	.92970	.30060	.07020	.97590	-.04795	.00330	-.00010	-.00200	.63400	.02297
.201	22.800	1.01520	.37070	.06940	1.07960	-.05166	.00320	-.00370	.00300	.63600	.02436
.201	24.890	1.10850	.45260	.06580	1.19390	-.05592	.00310	-.00630	.00800	.64000	.02980
.201	26.900	1.10970	.50350	.06630	1.21750	-.05310	.00620	-.00710	-.00100	.63400	.03818
.201	28.890	1.01580	.51310	.12310	1.13730	-.04062	.00230	.01000	-.02100	.62100	.05117
.201	30.860	1.01340	.56200	.13080	1.15820	-.03744	-.00100	.00930	-.01200	.61900	.05474
	GRADIENT	.04572	-.00192	.00052	.04619	.00125	-.00008	.00007	.00014	.00562	.00007

OA71A B16C5 D7 F1 W87E18V3R3X9 (RDS007) (10 OCT 73)

REFERENCE DATA

SREF = 4.4122 SQ.FT. XMRP = 43.5974 INCHES
LREF = 19.2299 INCHES YMRP = .0000 INCHES
BREF = 37.9349 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

BETA = .000 BDFLAP = -18.000
ELEVON = .000 AILRON = 10.000
VTLINC = .000 RUDDER = .000
SPDBRK = .000

RUN NO. 7/ 0 RN/L = 1.44 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.201	-4.060	-.09140	.03300	.00050	-.09350	.02652	.00720	.03710	-.03700	.66200	.01770
.201	-2.000	.00320	.03100	.00030	.00210	.03110	.00790	.03800	-.04000	.59800	.01806
.201	-.970	.04970	.03160	.00100	.04910	.03252	.00840	.03820	-.04200	.65200	.01756
.201	.060	.09080	.03180	.00120	.09080	.03177	.00880	.03910	-.04500	.65500	.01813
.201	1.090	.14410	.03370	.00110	.14470	.03103	.00890	.03930	-.04500	.65700	.01826
.201	2.130	.19040	.03650	.00170	.19160	.02936	.00910	.03940	-.04500	.65600	.01752
.201	4.180	.28010	.04290	.00340	.28250	.02236	.00950	.03990	-.04700	.65500	.01789
.201	6.250	.37340	.05340	.00370	.37700	.01243	.00980	.04030	-.05000	.65600	.01774
.201	8.330	.46740	.06940	.00480	.47260	.00098	.00990	.04070	-.05200	.65600	.01778
.201	10.390	.57330	.09270	.00400	.58060	-.01221	.01050	.04200	-.05500	.65700	.01858
.201	12.470	.68260	.12490	.00090	.69350	-.02555	.01090	.04240	-.05800	.65900	.01916
.201	14.600	.80470	.16640	-.00410	.82110	-.03991	.01150	.04240	-.06200	.66100	.02092
.201	16.670	.92220	.23190	-.01620	.95000	-.04247	.01190	.04580	-.06300	.66600	.02315
.201	18.730	1.01990	.30500	-.02300	1.06390	-.03879	.00630	.04170	-.05500	.66700	.02691
.201	20.820	1.12970	.39040	-.03480	1.19470	-.03657	.00760	.03980	-.05400	.67000	.03086
.201	22.900	1.20890	.46460	-.02980	1.29450	-.04261	.00510	.03210	-.04300	.66800	.03300
.201	24.950	1.27160	.54510	-.02510	1.38310	-.04243	.00400	.02320	-.03200	.66600	.03944
.201	26.920	1.17500	.55130	.03170	1.29730	-.04055	.00610	.00590	-.00400	.65100	.05126
.201	28.890	1.09870	.57290	.06320	1.23870	-.02920	-.00010	.02630	-.01800	.64100	.06095
.201	30.940	1.09970	.62650	.07150	1.26530	-.02808	-.00320	.02560	-.01300	.63900	.06169
	GRADIENT	.04517	.00122	.00033	.04572	-.00050	.00028	.00035	-.00122	.00215	.00001

OA71A B16C5 D7 F1 W87E18V3R3X9 (RDS008) (10 OCT 73)

REFERENCE DATA

SREF =	4.4122 SQ.FT.	XMRP =	43.5974 INCHES		
LREF =	19.2299 INCHES	YMRP =	.0000 INCHES		
BREF =	37.9349 INCHES	ZMRP =	16.2000 INCHES		
SCALE =	.0405 SCALE				

PARAMETRIC DATA

BETA =	.000	BDFLAP =	-10.000
ELEVON =	10.000	AILRON =	.000
VTLINC =	.000	RUDDER =	.000
SPCBRK =	.000		

RUN NO. 8/ 0 RN/L = 1.44 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.201	-3.940	.10690	.02820	-.09320	.10470	.03554	.00110	-.00140	.00000	.97800	.02022
.201	-1.870	.19980	.03310	-.09370	.19860	.03963	.00090	-.00130	.00000	.82800	.01918
.201	-.660	.24790	.03570	-.09430	.24730	.03952	.00090	-.00160	.00000	.79600	.01981
.201	.160	.29430	.04010	-.09430	.29440	.03919	.00090	-.00150	.00000	.77400	.01936
.201	1.200	.33950	.04410	-.09440	.34030	.03702	.00080	-.00150	.00100	.75900	.01991
.201	2.230	.38600	.04970	-.09350	.38760	.03469	.00080	-.00160	.00100	.74600	.01913
.201	4.290	.47370	.06210	-.09080	.47710	.02648	.00070	-.00160	.00100	.72800	.01890
.201	6.370	.56900	.07930	-.09320	.57430	.01567	.00070	-.00180	.00100	.71800	.01935
.201	8.440	.66680	.10260	-.09160	.67460	.00360	.00030	-.00140	.00200	.70800	.01673
.201	10.520	.77950	.13380	-.09680	.79090	-.01075	.00050	-.00150	.00200	.70300	.02022
.201	12.600	.88750	.17370	-.10020	.90400	-.02422	.00030	-.00150	.00300	.69900	.02054
.201	14.680	1.00690	.22570	-.10850	1.03320	-.03733	.00130	-.00300	.00100	.69700	.02247
.201	16.790	1.12750	.30330	-.11960	1.16700	-.03541	.00150	.00050	.00000	.69600	.02716
.201	18.860	1.22060	.39050	-.12880	1.28130	-.02502	.00400	.00090	-.00400	.69500	.03182
.201	20.960	1.33360	.48070	-.13920	1.41730	-.02830	.00260	-.00300	.00000	.69500	.03750
.201	23.040	1.40380	.56380	-.13270	1.51250	-.03064	.00070	-.00740	.00700	59100	.04116
.201	25.040	1.39590	.61560	-.09610	1.52530	-.03297	.00290	-.00720	.00200	.68200	.04672
.201	26.950	1.21490	.56720	-.01470	1.34910	-.02734	.00630	.00670	-.02600	.66500	.05064
.201	28.950	1.18100	.62870	.00640	1.33770	-.02154	.00080	.00900	-.01800	.65800	.06780
.201	30.950	1.16690	.67960	.01460	1.35030	-.01729	-.00180	.00800	-.01100	.65600	.06884
	GRADIENT	.04472	.00410	.00023	.04540	-.00113	-.00004	-.00003	.00016	-.02762	-.00012

OA71A B16C5 D7 F1 W87E16V3R3X9 (RDS009) (10 OCT 73)

REFERENCE DATA

SREF = 4.4122 SQ.FT. XMRP = 43.5974 INCHES
LREF = 19.2299 INCHES YMRP = .0000 INCHES
BREF = 37.9349 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

BETA = .000 BDFLAP = -18.000
ELEVON = -20.000 AILRON = .000
VTLINC = .000 RUDDER = .000
SPDBRK = .000

RUN NO. 9/ 0 RN/L = 1.44 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.201	-4.270	-.46860	.06820	.16860	-.47240	.03312	.00210	-.00160	-.00700	.78700	.00934
.201	-2.190	-.37300	.05460	.16720	-.37490	.04031	.00170	-.00160	-.00600	.81900	.00924
.201	-1.170	-.32760	.05000	.16810	-.32860	.04334	.00160	-.00130	-.00600	.84200	.00862
.201	-.140	-.28590	.04430	.17020	-.28600	.04361	.00140	-.00090	-.00500	.87200	.00973
.201	.880	-.24030	.04050	.17070	-.23970	.04429	.00160	-.00100	-.00500	.91400	.00904
.201	1.920	-.19250	.03670	.17100	-.19120	.04321	.00160	-.00060	-.00700	.97900	.00940
.201	3.970	-.09410	.03180	.17020	-.09170	.03828	.00160	-.00040	-.00600	1.32300	.00972
.201	6.060	-.00190	.02960	.17160	.00120	.02968	.00160	.00000	-.00600	15.99400	.01059
.201	8.110	.08770	.03240	.17580	.09140	.01978	.00120	.00040	-.00400	-.02700	.01088
.201	10.160	.17560	.04090	.18340	.18000	.00923	.00170	.00010	-.00500	.29500	.01141
.201	12.250	.27200	.05720	.18570	.27600	-.00162	.00160	.00000	-.00200	.42100	.01186
.201	14.340	.38350	.08280	.18570	.39200	-.01481	.00120	.00000	.00000	.49000	.01416
.201	16.450	.49660	.12550	.18110	.51180	-.02024	.00250	.00060	-.00100	.53300	.01594
.201	18.490	.60200	.17190	.18000	.62540	-.02792	.00050	.00010	.00200	.55700	.01814
.201	20.600	.71750	.23510	.17000	.75440	-.03240	.00060	.00060	.00100	.57900	.01956
.201	22.670	.80620	.29910	.16890	.85920	-.03483	.00220	-.00170	.00100	.58900	.02143
.201	24.760	.89840	.37070	.16260	.97110	-.03956	.00310	-.00640	.00300	.60000	.02654
.201	26.820	.94860	.43820	.16640	1.04450	-.03715	.00510	-.01090	.00300	.60300	.03089
.201	28.840	.90890	.46750	.16950	1.02170	-.02886	.00360	.00380	-.01000	.59300	.03663
.201	30.800	.90120	.50740	.19610	1.03390	-.02561	-.00130	.01070	-.01300	.59200	.04750
	GRADIENT	.04502	-.00442	.00038	.04578	.00063	-.00005	.00016	.00007	.05863	.00005

OA71A B16C5 D7 F1 W37E16V3R3X9 (RDS010) (10 OCT 73)

REFERENCE DATA

SREF =	4.4122 SQ.FT.	XMRP =	43.5974 INCHES		
LREF =	19.2299 INCHES	YMRP =	.0000 INCHES		
BREF =	37.9349 INCHES	ZMRP =	16.2000 INCHES		
SCALE =	.0405 SCALE				

PARAMETRIC DATA

BETA =	.000	BDFLAP =	-18.000
ELEVON =	.000	AILRON =	15.000
VTLINC =	.000	RUDDER =	.000
SPDBRK =	.000		

RUN NO. 10/ 0 RN/L = 1.44 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.201	-4.050	-.08110	.04520	-.00520	-.08410	.03941	.01000	.05580	-.05600	.63700	.01772
.201	-1.990	.01060	.04310	-.00450	.00910	.04347	.01060	.05680	-.05900	.83700	.01847
.201	-.950	.05580	.04340	-.00450	.05500	.04434	.01070	.05730	-.06100	.68900	.01855
.201	.070	.10300	.04470	-.00390	.10300	.04462	.01110	.05770	-.06400	.67300	.01821
.201	1.090	.15070	.04640	-.00330	.15160	.04353	.01130	.05830	-.06500	.66700	.01852
.201	2.120	.19440	.04970	-.00340	.19610	.04247	.01150	.05880	-.06700	.66600	.01762
.201	4.180	.28090	.05530	-.00330	.28420	.03474	.01180	.05870	-.06900	.66000	.01812
.201	6.270	.37930	.06680	-.00110	.38430	.02498	.01230	.05970	-.07100	.66100	.01836
.201	8.330	.48520	.08560	-.00500	.49250	.01436	.01270	.06310	-.07700	.66300	.01872
.201	10.410	.58770	.10910	-.00530	.59770	.00107	.01330	.06480	-.08000	.66300	.02004
.201	12.490	.69540	.14200	-.00720	.70960	-.01183	.01360	.06510	-.08300	.66300	.02093
.201	14.560	.80220	.18300	-.00980	.82240	-.02462	.01460	.06480	-.08700	.66400	.02206
.201	16.650	.92020	.24690	-.01870	.95240	-.02716	.01440	.06630	-.08700	.66700	.02394
.201	18.730	1.00980	.31770	-.02270	1.05830	-.02379	.00980	.05930	-.07800	.66700	.02891
.201	20.830	1.12080	.40140	-.03400	1.19030	-.02387	.00980	.05850	-.08000	.67000	.03267
.201	22.900	1.16770	.47000	-.02520	1.27700	-.02922	.00660	.04960	-.06700	.66700	.03532
.201	24.980	1.24000	.54370	-.01380	1.35360	-.03054	.00450	.03780	-.04800	.66300	.04069
.201	26.920	1.15910	.55480	.03680	1.28470	-.03020	.00500	.01670	-.01400	.64900	.05237
.201	28.900	1.09580	.57990	.06830	1.23970	-.02193	.00090	.03110	-.01900	.64000	.06253
.201	30.910	1.06420	.62920	.07510	1.25350	-.01708	-.00450	.03260	-.01100	.63800	.06225
	GRADIENT	.04424	.00131	.00053	.04502	-.00050	.00022	.00038	-.00167	-.00629	-.00000

OA71A B16C5 D7 F1J14W87 E18V3R3X10 (RDS011) (10 OCT 73)

REFERENCE DATA

SREF =	4.4122 SQ.FT.	XMRP =	43.5974 INCHES		
LREF =	19.2299 INCHES	YMPP =	.0000 INCHES		
BREF =	37.9349 INCHES	ZMRP =	16.2000 INCHES		
SCALE =	.0405 SCALE				

PARAMETRIC DATA

BETA =	.000	BDFLAP =	-18.000
ELEVON =	.000	AILRON =	15.000
VTLINC =	.000	RUDDER =	.000
SPDBRK =	.000	NACX/L =	.000

RUN NO. 11/ 0 RN/L = 1.44 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	C.M	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.201	-4.080	-.10280	.04960	-.01600	-.10610	.04215	.00990	.05490	-.05400	.60500	.01797
.201	-2.000	-.00240	.04880	-.01100	-.00410	.04868	.01030	.05580	-.05700	-.29500	.01815
.201	-.970	.04930	.04960	-.00830	.04840	.05046	.01060	.05630	-.06000	.72100	.01831
.201	.060	.09750	.05190	-.00610	.09750	.05184	.01090	.05670	-.06200	.68200	.01795
.201	1.090	.14570	.05500	-.00340	.14670	.05222	.01110	.05710	-.06400	.66800	.01797
.201	2.120	.19510	.05850	-.00040	.19710	.05127	.01100	.05720	-.06500	.66000	.01792
.201	4.190	.28690	.06820	.00610	.29320	.04690	.01110	.05750	-.06800	.65200	.01794
.201	6.280	.39060	.08350	.00940	.39730	.04023	.01180	.05900	-.07300	.65100	.01807
.201	8.350	.48990	.10790	.01380	.50040	.03558	.01160	.06100	-.07600	.65000	.01834
.201	10.420	.59240	.13870	.01780	.60770	.02922	.01100	.06260	-.07700	.64900	.01958
.201	12.520	.68670	.17390	.02740	.70810	.02095	.01240	.06200	-.08200	.64600	.01941
.201	14.570	.77800	.21340	.03650	.80670	.01070	.01260	.06050	-.08300	.64300	.02024
.201	16.650	.87170	.27190	.03870	.91310	.01075	.01900	.05930	-.09600	.64400	.02361
.201	18.710	.95440	.34440	.04040	1.01450	.01991	.00950	.05540	-.07400	.64500	.02802
.201	20.780	1.00100	.41330	.04800	1.08230	.03123	.00440	.04390	-.05600	.64400	.03266
.201	22.820	1.04490	.47280	.05760	1.14650	.03043	.00230	.03520	-.04000	.64200	.03750
.201	24.870	1.08520	.53460	.06830	1.20940	.02859	.00110	.03750	-.04000	.63900	.04250
.201	26.900	1.08550	.58260	.08860	1.23160	.02830	.00110	.02720	-.01900	.63400	.05064
.201	28.930	1.10160	.63510	.10270	1.27140	.02287	.00090	.02720	-.01000	.63100	.05485
.201	30.950	1.09860	.67740	.11340	1.29060	.01581	-.00060	.02050	-.00100	.62800	.05692
	GRADIENT	.04745	.00229	.00264	.04836	.00060	.00015	.00032	-.00175	.04750	-.00002

OA71A B16C5 D7 F1J14W87 E18V3R3X10 (RDS012) (10 OCT 73)

REFERENCE DATA

SREF =	4.4122 SQ.FT.	XMRP =	43.5974 INCHES		
LREF =	19.2299 INCHES	YMRP =	.0000 INCHES		
BREF =	37.9349 INCHES	ZMRP =	16.2000 INCHES		
SCALE =	.0405 SCALE				

PARAMETRIC DATA

BETA =	.000	BDFLAP =	-16.000
ELEVON =	-20.000	AILRON =	.000
VTLINC =	.000	RUDDER =	.000
SPDBRK =	.000	NACA/L =	.000

RUN NO. 12/ 0 RN/L = 1.44 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.201	-4.290	-.48360	.08090	.14560	-.48830	.04457	.00200	-.00420	-.00800	.76600	.00944
.201	-2.210	-.38760	.06560	.15110	-.38990	.05065	.00130	-.00500	-.00600	.79800	.00852
.201	-1.180	-.33450	.05900	.15340	-.33570	.05214	.00100	-.00520	-.00500	.82300	.00891
.201	-.140	-.28600	.05360	.15680	-.28610	.05289	.00080	-.00490	-.00500	.85500	.00919
.201	.890	-.23260	.04980	.15910	-.23180	.05349	.00090	-.00470	-.00400	.90500	.00861
.201	1.920	-.18240	.04630	.16220	-.18070	.05243	.00090	-.00470	-.00400	.98000	.00865
.201	3.990	-.08320	.04150	.16920	-.08010	.04723	.00060	-.00530	-.00100	1.41400	.00969
.201	6.050	.00810	.04210	.17650	.01250	.04108	.00060	-.00480	-.00300	-4.36800	.00927
.201	8.110	.10430	.04720	.18750	.10990	.03202	.00040	-.00530	.00000	.05000	.00994
.201	10.210	.19720	.06230	.19660	.20520	.02640	.00100	-.00570	.00100	.31700	.01108
.201	12.270	.28650	.08280	.20940	.29960	.01960	.00140	-.00370	.00000	.41000	.01161
.201	14.340	.38260	.10700	.21980	.39720	.00892	.00210	-.00210	-.00100	.46200	.01367
.201	16.430	.48440	.13930	.22750	.50410	-.00343	.00290	-.00110	-.00200	.49800	.01600
.201	18.520	.59210	.20300	.21660	.62600	.00440	.00370	.00000	-.00300	.53600	.01756
.201	20.610	.68200	.25370	.22240	.72770	-.00265	.00260	-.00090	.00000	.55000	.02136
.201	22.660	.75960	.31310	.22010	.82160	-.00372	.00370	-.00340	.00400	.56400	.02523
.201	24.710	.81950	.37610	.21700	.90170	-.00096	.00420	-.00230	.00200	.57300	.02834
.201	26.770	.86660	.43660	.21850	.97040	-.00053	.00290	.00000	.00000	.57900	.03312
.201	28.790	.90570	.49270	.22540	1.03110	-.00454	.00250	.00070	-.00100	.58100	.03749
.201	30.840	.92300	.54420	.22990	1.07150	-.00591	.00140	.00360	-.00600	.58300	.04259
	GRADIENT	.04865	- 70475	.00281	.04960	.00036	-.00015	-.00008	.00076	.06989	.00003

OA71A B18C5 D7 F1J14W87 E18V3R3X10 (RDS013) (10 OCT 73)

REFERENCE DATA

SREF =	4.4122 SQ.FT.	XMRP =	43.5974 INCHES		
LREF =	19.2299 INCHES	YMRP =	.0000 INCHES		
BREF =	37.9349 INCHES	ZMRP =	16.2000 INCHES		
SCALE =	.0405 SCALE				

PARAMETRIC DATA

BETA =	.000	BDFLAP =	-18.000
ELEVON =	10.000	AILRON =	.000
VTLINC =	.000	RUDDER =	.000
SPDBRK =	.000	NACX/L =	.000

RUN NO. 13/ 0 RN/L = 1.44 GRADIENT CRVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.201	-3.960	.09320	.03560	-.10930	.09050	.04204	.00090	-.00190	.00000	1.06700	.02066
.201	-1.860	.19220	.03880	-.09800	.19080	.04513	.00080	-.00140	-.00100	.84300	.02006
.201	-.860	.24230	.04190	-.09530	.24170	.04565	.00070	-.00170	.00100	.80100	.02018
.201	.160	.28870	.04580	-.09250	.28890	.04502	.00050	-.00170	.00100	.77400	.01958
.201	1.200	.33860	.05020	-.08950	.33970	.04314	.00060	-.00190	.00100	.75400	.01977
.201	2.210	.38590	.05620	-.08650	.38780	.04131	.00050	-.00210	.00300	.73900	.01911
.201	4.300	.48310	.07030	-.08070	.48710	.03368	.00050	-.00200	.00200	.71900	.01969
.201	6.380	.58550	.09150	-.07670	.59210	.02591	.00050	-.00200	.00300	.70600	.01886
.201	8.440	.68350	.12020	-.07030	.69390	.01855	.00050	-.00160	.00200	.69600	.01969
.201	10.530	.78430	.15600	-.06400	.79960	.00994	.00050	-.00190	.00300	.68800	.02049
.201	12.610	.88350	.19640	-.05700	.90510	-.00133	.00010	-.00140	.00400	.68200	.02224
.201	14.690	.97380	.24010	-.04670	1.00290	-.01473	.00040	-.00160	.00300	.67600	.02469
.201	16.770	1.06830	.29840	-.04110	1.10900	-.02256	.00400	-.00300	-.00200	.67300	.02652
.201	18.830	1.13710	.39150	-.04130	1.20260	.00344	.00440	.00590	-.00500	.67200	.03215
.201	20.860	1.17300	.45940	-.02790	1.25970	.01097	.00160	.00200	.00000	.66700	.03483
.201	22.920	1.20930	.52390	-.01240	1.31790	.01142	.00210	.00030	.00000	.66300	.04017
.201	24.970	1.23870	.58120	.00550	1.33830	.00394	.00250	-.00180	.00100	.65800	.04338
.201	26.970	1.21270	.61760	.03520	1.36090	.00035	.00120	-.00370	.00800	.65000	.05410
.201	29.000	1.21030	.66390	.05390	1.38050	-.00626	.00200	.00190	-.00300	.64600	.05768
.201	30.010	1.22150	.69300	.06020	1.40480	-.01028	.00160	-.00070	.00200	.64400	.05971
	GRADIENT	.04719	.00420	.00275	.04800	-.00099	-.00005	-.00005	.00037	-.03602	-.00014

OA71A B16C5 D7 F1J14W87 E18V3R3X10 (RDS014) (10 OCT 73)

REFERENCE DATA

SREF =	4.4122 SQ.FT.	XMRP =	43.5974 INCHES		
LREF =	19.2299 INCHES	YMRP =	.0000 INCHES		
BREF =	37.9349 INCHES	ZMRP =	16.2000 INCHES		
SCALE =	.0405 SCALE				

PARAMETRIC DATA

BETA =	.000	BOFLAP =	-18.000
ELEVON =	.000	AILRON =	10.000
VTLINC =	.000	RUDDER =	.000
SPOBRK =	.000	NACX/L =	.000

RUN NO. 14/ 0 RN/L = 1.44 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	C/N	CBL	CY	XCP/L	CAB
.201	-4.110	-.10290	.04310	-.01290	-.10580	.03562	.00720	.03640	-.03700	.61600	.01753
.201	-2.040	-.00420	.03980	-.00760	-.00560	.03972	.00790	.03700	-.04000	.17400	.01722
.201	-.990	.04880	.03970	-.00540	.04810	.04059	.00800	.03670	-.04000	.70000	.01738
.201	.090	.10560	.04120	-.00440	.10560	.04111	.00820	.03560	-.04100	.67400	.01758
.201	1.050	.14850	.04470	.00110	.14930	.04202	.00880	.03740	-.04300	.65700	.01674
.201	2.080	.19240	.04590	.00500	.19390	.03886	.00900	.03830	-.04600	.65000	.01734
.201	4.150	.28810	.05360	.01200	.29120	.03261	.00900	.03850	-.04600	.64500	.01688
.201	6.280	.38870	.06660	.01740	.39360	.02363	.00950	.03970	-.05000	.64400	.01739
.201	8.300	.48560	.08660	.02400	.49310	.01561	.00990	.04030	-.05200	.64200	.01799
.201	10.380	.58400	.11680	.02960	.59550	.00962	.00970	.04000	-.05200	.64200	.01760
.201	12.450	.68590	.14940	.03690	.70200	-.00200	.00970	.04140	-.05600	.64100	.01911
.201	14.550	.78230	.18810	.04570	.80450	-.01447	.00980	.04010	-.05700	.63900	.02000
.201	16.610	.87720	.23410	.05310	.90750	-.02643	.01050	.03860	-.06000	.63900	.02263
.201	18.690	.97040	.31460	.04860	1.02000	-.01310	.01130	.04130	-.06100	.64200	.02715
.201	20.760	1.02840	.38790	.05350	1.09910	-.00184	.00510	.03210	-.04300	.64200	.03109
.201	22.800	1.07540	.45240	.06110	1.16670	.00020	.00420	.02660	-.03700	.64100	.03513
.201	24.880	1.11500	.51180	.07360	1.22690	-.00441	.00270	.02380	-.03000	.63800	.04026
.201	26.880	1.10980	.55660	.09390	1.24160	-.00507	.00110	.01630	-.01100	.63200	.04921
.201	28.900	1.12730	.60930	.10720	1.28140	-.01149	.00190	.01790	-.01300	.63000	.05417
.201	30.900	1.13260	.66070	.11870	1.31120	-.01485	.00040	.01600	-.00600	.62700	.05756
	GRADIENT	.04749	.00136	.00303	.04821	-.00028	.00024	.00027	-.00118	.02374	-.00007

OA71A B16C5 D7 F1J14W87 E16V3R3X10 (SDS015) (16 OCT 73)

REFERENCE DATA

SREF =	4.4122 SQ.FT.	XMRP =	43.5974 INCHES		
LREF =	19.2299 INCHES	YMRP =	.0000 INCHES		
BREF =	37.9349 INCHES	ZMRP =	16.2000 INCHES		
SCALE =	.0405 SCALE				

PARAMETRIC DATA

BETA =	.000	BOFLAP =	-18.000
ELEVON =	-10.000	AILRON =	.000
VTLINC =	.000	RUDDER =	.000
SPCBRK =	.000	NACX/I =	.000

RN/L = 1.44 GRADIENT INTERVAL = -5.00/ 5.00

MACH = .201

ALPHA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
-4.190	-.32740	.04960	.08160	-.33020	.02559	.00120	-.00110	-.00600	.74800	.01086
-2.110	-.22710	.03950	.08690	-.22840	.03118	.00110	-.00100	-.00500	.79600	.01058
-1.090	-.17760	.03610	.08960	-.17850	.03274	.00080	-.00100	-.00400	.83900	.01051
-.050	-.12570	.03300	.09340	-.12580	.03295	.00050	-.00100	-.00400	.92500	.01123
.970	-.07540	.03210	.09610	-.07490	.03340	.00080	-.00100	-.00400	1.11900	.01048
2.010	-.02720	.03050	.09960	-.02610	.03149	.00080	-.00110	-.00400	2.02200	.01136
4.080	.07100	.03190	.10610	.07310	.02677	.00080	-.00110	-.00400	.14100	.01098
6.130	.17000	.03680	.11290	.17300	.01645	.00070	-.00140	-.00200	.42600	.01147
8.240	.26920	.05030	.11970	.27370	.01119	.00090	-.00090	-.00400	.50300	.01138
10.320	.37270	.07110	.12540	.37940	.00324	.00100	-.00130	-.00200	.54100	.01270
12.390	.47660	.09770	.13280	.48660	-.00689	.00090	-.00130	-.00200	.56200	.01482
14.500	.57900	.13040	.13910	.59320	-.01872	.00090	-.00140	-.00200	.57600	.01636
16.530	.68060	.17080	.14460	.70110	-.02991	.00140	-.00150	-.00100	.58600	.01815
18.670	.78060	.24820	.13500	.81900	-.01407	.00200	-.00050	.00000	.60100	.02161
20.690	.86470	.30980	.13970	.91840	-.01573	.00150	-.00130	.00200	.60500	.02477
22.760	.93260	.37220	.14000	1.00400	-.01762	.00330	-.00160	.00000	.61000	.02863
24.800	.97820	.43320	.14450	1.06970	-.01722	.00250	-.00300	.00300	.61100	.03147
26.850	1.00510	.49130	.15180	1.11870	-.01569	.00140	-.00140	.00100	.61100	.03704
28.870	1.02130	.54190	.16490	1.15600	-.01866	.00060	.00080	.00000	.60800	.04357
30.900	1.03650	.59790	.17070	1.19820	-.02027	.00130	-.00020	.00100	.60900	.04610
GRADIENT	.04831	-.00214	.00299	.04890	.00014	-.00005	-.00000	.00023	.00688	.00005

CA71A B16C5 D7 F1J14W87 E18V3R3X10 (RDS016) (10 OCT 73)

REFERENCE DATA

SREF =	4.4122 SQ.FT.	XMRP =	43.5974 INCHES		
LREF =	19.22[illegible] INCHES	YMRP =	.0000 INCHES		
BREF =	37.9349 INCHES	ZMRP =	16.2000 INCHES		
SCALE =	.0405 SCALE				

PARAMETRIC DATA

BETA =	.000	BDFLAP =	-18.000
ELEVON =	.000	AILRON =	5.000
VTLINC =	.000	RUDDER =	.000
SPDBRK =	.000	NACX/L =	.000

RUN NO. 16/ 0 RN/L = 1.44 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAS
.201	-4.080	-.11360	.03600	-.00860	-.11590	.02784	.00450	.01910	-.02100	.63300	.01619
.201	-2.010	-.01590	.03240	-.00300	-.01700	.03184	.00490	.01970	-.02300	.59500	.01639
.201	-.980	.03710	.03210	-.00010	.03660	.03277	.00500	.01960	-.02100	.66100	.01631
.201	.040	.08510	.03280	.00270	.08510	.03274	.00490	.02000	-.02300	.64800	.01616
.201	1.080	.13380	.03410	.00550	.13450	.03158	.00500	.02010	-.02200	.64500	.01648
.201	2.140	.18440	.03640	.00690	.18560	.02952	.00510	.02050	-.02300	.64200	.01638
.201	4.250	.28220	.04420	.01470	.28470	.02323	.00510	.02030	-.02300	.64100	.01600
.201	6.270	.38210	.05650	.01990	.38600	.01444	.00520	.02110	-.02500	.64100	.01644
.201	8.350	.48220	.07830	.02540	.48850	.00743	.00540	.02100	-.02500	.64100	.01649
.201	10.430	.58080	.10670	.03070	.59060	-.00015	.00530	.02110	-.02600	.64100	.01738
.201	12.520	.68770	.14100	.03630	.70190	-.01144	.00520	.02140	-.02800	64000	.01863
.201	14.570	.78310	.17930	.04540	.80300	-.02348	.00560	.02100	-.02900	.63900	.02012
.201	16.650	.87720	.22570	.05020	.90510	-.03520	.00630	.01960	-.03000	.64000	.02282
.201	18.730	.97190	.30250	.04630	1.01760	-.02563	.01170	.02430	-.04100	.64300	.02705
.201	20.790	1.03490	.36120	.04930	1.10290	-.01106	.00400	.01750	-.02400	.64300	.03038
.201	22.840	1.08830	.44770	.05790	1.17670	-.00988	.00330	.01280	-.01800	.64200	.03453
.201	24.900	1.13070	.50800	.06840	1.23950	-.01539	.00280	.01150	-.01400	.64000	.04031
.201	26.910	1.12530	.55650	.08760	1.25540	-.01323	.00060	.01140	-.00900	.63500	.04746
.201	28.930	1.13470	.60660	.10160	1.28650	-.01819	.00140	.01010	-.00700	.63100	.05234
.201	30.940	1.14670	.66210	.11190	1.32390	-.02175	.00140	.00660	.00100	.62900	.05490
	GRADIENT	.04763	.00099	.00281	.04820	-.00056	.00006	.00016	-.00021	.00250	-.00001

OA71A B16C5 D7 F1J14W87 E18V3R3X10 (RDS017) (10 OCT 73)

REFERENCE DATA

SREF =	4.4122 SQ.FT.	XMRP =	43.5974 INCHES		
LREF =	19.2299 INCHES	YMRP =	.0000 INCHES		
DREF =	37.9348 INCHES	ZMRP =	16.2000 INCHES		
SCALE =	.0405 SCALE				

PARAMETRIC DATA

BETA =	.000	BDFLAP =	-18.000
ELEVON =	5.000	AILRON =	.000
VTLINC =	.000	RUDDER =	.000
SPDBRK =	.000	NACX/L =	.000

RUN NO. 17/ 0 RN/L = 1.44 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CYN	CDL	CY	XCP/L	CAB
.201	-4.000	-.00720	.03210	-.05690	-.00040	.03154	.00160	-.00110	-.00400	-1.49700	.01797
.201	-1.940	.09250	.03170	-.05210	.09140	.03489	.00120	-.00100	-.00200	.66300	.01841
.201	-.880	.14350	.03320	-.04970	.14290	.03543	.00110	-.00110	-.00200	.78400	.01791
.201	.140	.19040	.03555	-.04660	.19050	.03509	.00120	-.00110	-.00100	.74700	.01759
.201	1.150	.24020	.03830	-.04350	.24090	.03351	.00110	-.00120	-.00100	.72400	.01762
.201	2.210	.28910	.04300	-.04050	.29050	.03186	.00090	-.00120	.00000	.70900	.01715
.201	4.260	.38610	.05350	-.03450	.38900	.02460	.00070	-.00150	.00000	.69100	.01749
.201	6.350	.48790	.07030	-.03100	.49270	.01598	.00070	-.00140	.00000	.68200	.01751
.201	8.420	.58780	.09540	-.02540	.59550	.00830	.00060	-.00140	.00200	.67500	.01757
.201	10.500	.68860	.12750	-.01790	.70050	-.00017	.00050	-.00120	.00100	.66900	.01919
.201	12.570	.78700	.16120	-.01150	.80440	-.01112	.00050	-.00090	.00000	.66500	.02020
.201	14.650	.88400	.20700	-.00380	.90760	-.02339	.00070	-.00120	.00100	.66100	.02280
.201	16.710	.97930	.25990	.00010	1.01270	-.03277	.00360	-.00270	-.00400	.65930	.02453
.201	18.790	1.06250	.34670	-.00170	1.11750	-.01397	.00350	.00130	-.00300	.66000	.02656
.201	20.860	1.11780	.42050	.00460	1.19420	-.00523	.00180	-.00040	.00300	.65800	.03300
.201	22.905	1.15940	.48600	.01610	1.25720	-.00348	.00210	-.00080	.00000	.65500	.03765
.201	24.950	1.19080	.54480	.03130	1.30950	-.00835	.00210	-.00280	.00400	.65100	.04143
.201	26.950	1.17800	.58860	.05470	1.31690	-.00924	.00080	-.00300	.00800	.64500	.05067
.201	29.010	1.18920	.63900	.07110	1.34900	-.01791	.00170	.00070	.00000	.64100	.05527
.201	31.010	1.18260	.68020	.08580	1.36910	-.01770	.00100	-.00210	.00700	.63700	.05695
	GRADIENT	.04750	.00261	.00274	.04812	-.00082	-.00010	-.00005	.00048	.19323	-.00009

OA71A B16C5 D7 F1J14W87 E18V3R3X10 (RDS019) (10 OCT 73)

REFERENCE DATA

SREF =	4.4122 SQ.FT.	XMRP =	43.[illegible]74 INCHES		
LREF =	19.2299 INCHES	YMRP =	.0000 INCHES		
BREF =	37.9349 INCHES	ZMRP =	16.2000 INCHES		
SCALE =	.0405 SCALE				

PARAMETRIC DATA

BETA =	.000	BDFLAP =	-10.000
ELEVON =	.000	AILRON =	.000
VTLINC =	.000	RUDDER =	.000
SPCBRK =	.000	NACX/L =	.000

RUN NO. 19/ 0 RN/L = 1.44 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.201	-4.090	-.11400	.03480	-.01090	-.11620	.02659	.00080	-.00110	-.00300	.62700	.01585
.201	-2.000	-.01120	.03170	-.00480	-.01230	.03133	.00080	-.00120	-.00200	.52000	.01572
.201	-.940	.03740	.03200	-.00230	.03660	.03266	.00080	-.00140	-.00100	.68200	.01519
.201	.080	.06590	.03240	.00060	.06600	.03233	.00070	-.00140	.00000	.65700	.01574
.201	1.080	.13260	.03290	.00[illegible]20	.13340	.03041	.00080	-.00140	.00000	.64600	.01578
.201	2.110	.18090	.03570	.00690	.18210	.02905	.00080	-.00160	.00000	.64600	.01549
.201	4.210	.28130	.04270	.01260	.28370	.02194	.00030	-.00190	.00200	.64400	.01597
.201	6.250	.38170	.05540	.01740	.38340	.01354	.00000	-.00220	.00300	.64300	.01541
.201	8.340	.48140	.07660	.02200	.48740	.00615	.00000	-.00180	.00200	.64300	.01569
.201	10.440	.58630	.10630	.02860	.59590	-.00173	-.00050	-.00150	.00300	.64200	.01694
.201	12.510	.68860	.13900	.03560	.70240	-.01347	-.00020	-.00120	.00200	.64100	.01636
.201	14.580	.78620	.17890	.04090	.80600	-.02475	-.00030	-.00120	.00300	.64100	.02106
.201	16.640	.88240	.22630	.04650	.91020	-.03613	.00080	-.00230	.00100	.64100	.02282
.201	18.710	.97470	.30660	.04400	1.02220	-.02053	-.00130	-.00270	.00800	.64400	.02690
.201	20.800	1.03630	.38290	.04690	1.10480	-.01009	.00050	-.00080	.00500	.64400	.03011
.201	22.860	1.08790	.44630	.05710	1.17560	-.01151	.00150	-.00250	.00400	.64200	.03380
.201	24.910	1.12690	.50630	.06760	1.23530	-.01546	.00160	-.00340	.00600	.64000	.03609
.201	28.930	1.12600	.55690	.08560	1.25790	-.01448	.00070	-.00[illegible]	.00600	.63500	.04566
.201	28.980	1.14000	.60800	.09910	1.29190	-.01997	.00120	-.00140	.00200	.63200	.05136
.201	30.990	1.14550	.66200	.10990	1.32280	-.02226	.00160	-.00200	.00600	.63000	.05393
	GRADIENT	.04744	.00093	.00261	.04600	-.00058	-.00006	-.00009	.00058	.00659	.00001

OA71A B16C5 D7 F1J14W87 E18V3R3X10 (RDS020) (10 OCT 73)

REFERENCE DATA

SREF =	4.4122 SQ.FT.	XMRP =	43.3974 INCHES		
LREF =	19.2299 INCHES	YMRP =	.0000 INCHES		
BREF =	37.9349 INCHES	ZMRP =	16.2000 INCHES		
SCALE =	.0405 SCALE				

PARAMETRIC DATA

ALPHA =	.000	BDFLAP =	-10.000
ELEVON =	.000	AILRON =	.000
VTLINC =	.000	RUDDER =	.000
SPCBRK =	.000	NACX/L =	.000

RUN NO. 20/ 0 RN/L = 1.44 GRADIENT INTERVAL = -6.00/ 6.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.201	-10.090	.10160	.01960	-.00950	.10170	.01953	-.00510	.00100	.22600	.69300	.01654
.201	-5.040	.09270	.02030	-.00420	.09270	.02621	-.00270	.00100	.11100	.67600	.01651
.201	.010	.08460	.03230	.00030	.08460	.03226	.00070	-.00140	.00000	.65000	.01605
.201	5.060	.08590	.02760	-.00330	.08590	.02752	.00400	-.00370	-.11000	.67400	.01647
.201	10.110	.09390	.01840	-.00680	.09350	.01832	.00520	-.00330	-.22400	.69300	.01994
	GRADIENT	-.00087	-.00007	.00009	-.00067	-.00007	.00066	-.00047	-.02166	-.00020	-.00000

OA71A B16C5 D7 F1J: W87 E18V3R3X10 (RDS021) (10 OCT 73)

REFERENCE DATA

SREF =	4.4122 SQ.FT.	XMRP =	43.5974 INCHES		
LREF =	19.2299 INCHES	YMRP =	.0000 INCHES		
BREF =	37.9349 INCHES	ZMRP =	16.2000 INCHES		
SCALE =	.0405 SCALE				

PARAMETRIC DATA

ALPHA =	10.000	BDFLAP =	-16.000
ELEVON =	.000	AILRON =	.000
VTLINC =	.000	RUDDER =	.000
SPDBRK =	.000	NACX/L =	.000

RUN NO. 21/ 0 RN/L = 1.44 GRADIENT INTERVAL = -6.00/ 6.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.201	-10.120	.58770	.09540	.02150	.59530	-.01260	-.00190	.01470	.22400	.64700	.02165
.201	-5.060	.58620	.10180	.02550	.59490	-.00585	-.00110	.00770	.11100	.64400	.01642
.201	-.010	.58360	.10670	.02850	.59330	-.00069	.00010	-.00150	.00500	.64200	.01690
.201	5.030	.58580	.10220	.02450	.59470	-.00545	.00130	-.01070	-.10000	.64500	.01648
.201	10.100	.58360	.09530	.02140	.59140	-.01185	.00290	-.01810	-.21600	.64700	.02161
	GRADIENT	-.00004	.00004	-.00010	-.00002	.00004	.00024	-.00182	-.02087	.00010	.00001

OA71A B16C5 D7 F1J14W87 E18V3R3X10 (RDS022) (10 OCT 73)

REFERENCE DATA

SREF =	4.4122 SQ.FT.	XMRP =	43.5974 INCHES		
LREF =	19.2299 INCHES	YMRP =	.0000 INCHES		
BREF =	37.9349 INCHES	ZMRP =	16.2000 INCHES		
SCALE =	.0405 SCALE				

PARAMETRIC DATA

BETA =	.000	BDFLAP =	-16.000
ELEVON =	.000	AILRON =	.000
VTLINC =	.000	RUDDER =	.000
SPDBRK =	.000	NACX/L =	.000

RUN NO. 22/ 0 RN/L = 1.44 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.201	-4.080	-.11500	.03440	-.00930	-.11710	.02621	.00110	-.00120	-.00500	.63100	.01550
.201	-1.990	-.01400	.03080	-.00360	-.01500	.03014	.00100	-.00110	-.00500	.57300	.01550
.201	-.970	.03440	.03010	-.00070	.03390	.03071	.00070	-.00130	-.00200	.66700	.01569
.201	.060	.08730	.03070	.00280	.08740	.03063	.00070	-.00130	-.00200	.64800	.01567
.201	1.080	.13320	.03230	.00530	.13380	.02977	.00070	-.00140	-.00200	.64500	.01554
.201	2.130	.18300	.03430	.00800	.18410	.02746	.00060	-.00160	-.00100	.64400	.01577
.201	4.200	.28250	.04220	.01390	.28480	.02144	.00060	-.00190	.00000	.64200	.01557
.201	6.270	.38140	.05550	.01760	.38520	.01350	.00020	-.00210	.00100	.64300	.01519
.201	8.340	.48590	.07600	.02300	.49180	.00477	.00020	-.00180	.00000	.64300	.01601
.201	10.430	.58910	.10570	.02850	.59850	-.00271	.00010	-.00160	.00100	.64200	.01724
.201	12.510	.69190	.13950	.03550	.70570	-.01367	.00030	-.00180	.00000	.64100	.01878
.201	14.580	.79030	.17870	.04220	.80980	-.02597	.00050	-.00110	.00000	.64100	.02003
.201	16.660	.88850	.22000	.04750	.91650	-.03674	.00160	-.00200	.00000	.64100	.02274
.201	18.760	.97660	.31230	.04340	1.02520	-.01846	.00130	-.00030	.00100	.64400	.02654
.201	20.820	1.04510	.36510	.04710	1.11370	-.01149	.00110	.00010	.00100	.64400	.03084
.201	22.850	1.09140	.44700	.05680	1.17940	-.01207	.00200	-.00110	.00100	.64200	.03446
.201	24.900	1.13220	.50720	.06830	1.24050	-.01662	.00240	-.00320	.00400	.64000	.03937
.201	26.910	1.15160	.55740	.08570	1.26140	-.01519	.00040	-.00170	.00100	.63500	.04675
.201	28.950	1.14440	.60990	.10100	1.29660	-.02135	.00070	.00010	.00100	.63200	.05110
.201	30.990	1.15110	.66520	.11120	1.32930	-.02252	.00090	-.00310	.00100	.63000	.05417
	GRADIENT	.04798	.00094	.00281	.04851	-.00058	-.00006	-.00009	.00064	.00376	.00005

OA71A B16C5 D7 F1J14W87 E18V3R3X10 (RDS023) (10 OCT 73)

REFERENCE DATA

SREF =	4.4122 SQ.FT.	XMRP =	43.5974 INCHES		
LREF =	19.2299 INCHES	YMRP =	.0000 INCHES		
BREF =	37.9349 INCHES	ZMRP =	16.2000 INCHES		
SCALE =	.0405 SCALE				

PARAMETRIC DATA

BETA =	.000	BDFLAP =	-10.000
ELEVON =	.000	AILRON =	.000
VTLINC =	.000	RUDDER =	.000
SPDBRK =	.000	NACX/L =	.200

RUN NO. 23/ 0 RN/L = 1.44 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.201	-4.060	-.11700	.03530	-.00560	-.11920	.02687	.00140	-.00130	-.00800	.64200	.01548
.201	-2.030	-.01770	.03110	-.00190	-.01880	.03031	.00120	-.00120	-.00700	.62300	.01612
.201	-.980	.03520	.03100	.00000	.03460	.03166	.00150	-.00140	-.00700	.65900	.01575
.201	.060	.08520	.03150	.00230	.08320	.03141	.00120	-.00140	-.00600	.64900	.01555
.201	1.090	.13210	.03310	.00430	.13280	.03062	.00100	-.00130	-.00400	.64800	.01550
.201	2.120	.18150	.03520	.00690	.18270	.02848	.00080	-.00150	-.00300	.64600	.01559
.201	4.160	.27810	.04250	.01140	.28030	.02218	.00060	-.00140	-.00300	.64500	.01579
.201	6.200	.37940	.05640	.01430	.38320	.01468	.00040	-.00190	-.00100	.64600	.01578
.201	8.340	.47840	.07840	.01770	.48470	.00815	.00050	-.00190	.00000	.64600	.01657
.201	10.390	.57780	.10720	.02190	.58770	.00115	.00030	-.00160	.00000	.64600	.01735
.201	12.500	.67990	.14160	.02630	.69440	-.00685	.00020	-.00150	.00000	.64600	.01899
.201	14.560	.78170	.18190	.03060	.80230	-.02053	.00000	-.00160	.00100	.64600	.02127
.201	16.640	.88160	.22970	.03410	.91040	-.03241	.00040	-.00220	.00000	.64600	.02376
.201	18.740	.98160	.30340	.03360	1.02700	-.02817	.00050	-.00210	.00500	.64800	.02682
.201	20.780	1.08700	.37850	.03750	1.09450	-.01042	.00000	-.00150	.00700	.64700	.03119
.201	22.830	1.07560	.43500	.04720	1.16010	-.01654	.00140	-.00070	.00400	.64500	.03454
.201	24.870	1.09160	.49000	.06000	1.19640	-.01468	.00130	-.00350	.00700	.64200	.03898
.201	26.910	1.13360	.55640	.06720	1.26280	-.01717	.00140	-.00480	.00700	.64000	.04615
.201	28.940	1.14000	.61040	.06250	1.29300	-.01753	.00150	-.00380	.00300	.63700	.05054
.201	30.940	1.13160	.65860	.09530	1.30920	-.01700	.00070	.00040	.00200	.63300	.05460
	GRADIENT	.04793	.00090	.00208	.04649	-.00055	-.00010	-.00012	.00072	.00110	-.00000

OA71A B16C5 D7 F1J14W87 E18V3R3X10 (RDS024) (10 OCT 73)

REFERENCE DATA

SREF =	4.4122 SQ.FT.	XMRP =	43.5974 INCHES		
LREF =	19.2299 INCHES	YMRP =	.0000 INCHES		
BREF =	37.9349 INCHES	ZMRP =	16.2000 INCHES		
SCALE =	.0405 SCALE				

PARAMETRIC DATA

ALPHA =	.000	BDFLAP =	-10.000
ELEVON =	.000	AILRON =	.000
VTLINC =	.000	RUDDER =	.000
SPDBRK =	.000	NACX/L =	.200

RUN NO. 24/ 0 RN/L = 1.44 GRADIENT INTERVAL = -6.00/ 6.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.201	-10.110	.09960	.01810	-.00580	.09960	.01798	-.00560	.00130	.21900	.68400	.01962
.201	-5.090	.09000	.02720	-.00070	.09000	.02714	-.00330	.00120	.11700	.66200	.01629
.201	.000	.08410	.03110	.00330	.08410	.03109	.00120	-.00130	-.01500	.64500	.01572
.201	5.050	.09590	.02630	-.00120	.08590	.02620	.00330	-.00350	-.11700	.66400	.01663
.201	10.120	.09060	.01670	-.00750	.09060	.01656	.00700	-.00200	-.23000	.68900	.01982
	GRADIENT	-.00041	-.00009	-.00005	-.00041	-.00009	.00065	-.00047	-.02218	.00120	.00013

OA71A B16C5 D7 F1J14W87 E16V3R3X10 (RDS025) (10 OCT 73)

REFERENCE DATA

SREF =	4.4122 SQ.FT.	XMRP =	43.5974 INCHES		
LREF =	19.2299 INCHES	YMRP =	.0000 INCHES		
BREF =	37.9349 INCHES	ZMRP =	16.2000 INCHES		
SCALE =	.0405 SCALE				

PARAMETRIC DATA

ALPHA =	10.000	BDFLAP =	-16.000
ELEVON =	.000	AILRON =	.000
VTLINC =	.000	RUDDER =	.000
SPCBRK =	.000	NACX/L =	.200

RUN NO. 25/ 0 RN/L = 1.44 GRADIENT INTERVAL = -6.00/ 6.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.201	-10.100	.58600	.09620	.01390	.59370	-.01155	-.00310	.01450	.22400	.65100	.02210
.201	-5.040	.58360	.10130	.01870	.59250	-.00620	-.00190	.00850	.11000	.64800	.01936
.201	.020	.57830	.10710	.02150	.58610	.00097	.00090	-.00160	.00100	.64600	.01734
.201	5.090	.57810	.10280	.01850	.58720	-.00353	.00280	-.01080	-.10400	.64800	.01834
.201	10.110	.57960	.09520	.01430	.58720	-.01133	.00510	-.01840	-.22200	.65100	.02213
	GRADIENT	-.00057	.00015	-.00002	-.00053	.00027	.0004-	-.00189	-.02121	-.00000	-.00010

OA71A B16C5 D7 F1J14W87 E16V3R3X10 (RDS026) (10 OCT 73)

REFERENCE DATA

SREF =	4.4122 SQ.FT.	XMRP =	43.5974 INCHES		
LREF =	19.2299 INCHES	YMRP =	.0000 INCHES		
BREF =	37.9349 INCHES	ZMRP =	16.2000 INCHES		
SCALE =	.0405 SCALE				

PARAMETRIC DATA

BETA =	.000	BDFLAP =	-16.000
ELEVON =	5.000	AILRON =	.000
VTLINC =	.000	RUDDER =	.000
SPCBRK =	.000	NACX/L =	.200

RUN NO. 26/ 0 RN/L = 1.44 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.201	-4.030	-.00830	.03340	-.05240	-.01060	.03202	.00140	-.00120	-.00700	-1.09600	.01836
.201	-1.940	.09240	.03260	-.04940	.09130	.03572	.00120	-.00140	-.00500	.85300	.01864
.201	-.890	.14100	.03430	-.04740	.14040	.03650	.00130	-.00120	-.00500	.78000	.01816
.201	.120	.19030	.03630	-.04550	.19040	.03594	.00090	-.00130	-.00300	.74500	.01833
.201	1.160	.23770	.03940	-.04350	.23850	.03460	.00110	-.00130	-.00200	.72500	.01825
.201	2.190	.28650	.04350	-.04100	.28800	.03250	.00110	-.00130	-.00200	.71000	.01748
.201	4.250	.38230	.05450	-.03640	.38530	.02594	.00090	-.00160	.00000	.69300	.01776
.201	6.350	.48340	.07200	-.03330	.48040	.01611	.00090	-.00160	.00200	.68400	.01770
.201	8.410	.57890	.09750	-.02990	.58700	.01172	.00080	-.00140	.00200	.67800	.01854
.201	10.460	.67570	.12950	-.02470	.68000	.00446	.00060	-.00100	.00100	.67200	.01933
.201	12.570	.78150	.16720	-.02030	.79310	-.00589	.00040	-.00140	.00200	.66900	.02260
.201	14.650	.87950	.21130	-.01510	.90430	-.01809	.00040	-.00130	.00200	.66500	.02393
.201	16.720	.98070	.26450	-.01210	1.01540	-.02882	.00190	-.00260	.00000	.66400	.02636
.201	18.800	1.05740	.34040	-.01110	1.11070	-.01858	.00890	.00750	-.01500	.66900	.03007
.201	20.840	1.09910	.41550	-.00400	1.17500	-.00284	.00090	.00500	.00300	.66100	.03412
.201	22.890	1.14410	.47410	.01010	1.23850	-.00825	.00090	.00000	.00100	.65700	.03818
.201	24.930	1.15540	.52860	.02570	1.27050	-.00771	.00200	-.00190	.00000	.65200	.04362
.201	26.990	1.17990	.58850	.03090	1.31250	-.01111	.00190	-.00350	.00300	.64000	.05093
.201	28.990	1.19030	.64510	.05320	1.35430	-.01205	.00200	.00000	.00000	.64500	.05557
.201	30.970	1.17690	.69070	.06910	1.36450	-.01361	.00030	.00040	.00300	.64100	.06047
	GRADIENT	.04714	.00256	.00195	.04778	-.00002	-.00006	-.00005	.00005	.15764	-.00011

CA71A B16C5 D7 F1J14W87 E19X3R3X10 (RDS027) (10 OCT 73)

REFERENCE DATA

SREF =	4.4122 SQ.FT.	XMRP =	43.5974 INCHES		
LREF =	19.2299 INCHES	YMRP =	.0000 INCHES		
BREF =	37.9349 INCHES	ZMRP =	16.2000 INCHES		
SCALE =	.0405 SCALE				

PARAMETRIC DATA

BETA =	.000	DDFLAP =	-18.000
ELEVON =	.000	AILRON =	5.000
VTLINC =	.000	RUDDER =	.000
SPDBRK =	.000	NACX/L =	.200

RUN NO. 27/ 0 RN/L = 1.44 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAD
.201	-4.100	-.11880	.03780	-.00370	-.12120	.02920	.00500	.01080	-.02500	.64800	.01585
.201	-2.010	-.01720	.03380	.00000	-.01840	.03325	.00530	.01890	-.02400	.66000	.01692
.201	-.970	.03200	.03360	.00190	.03150	.03416	.00570	.01920	-.02600	.63600	.01573
.201	.080	.08200	.03330	.00390	.08210	.03327	.00590	.01980	-.02700	.64200	.01665
.201	1.090	.12840	.03550	.00590	.12900	.03309	.00570	.01980	-.02500	.64300	.01576
.201	2.110	.17820	.03720	.00810	.17940	.03061	.00560	.02030	-.02600	.64300	.01647
.201	4.160	.27510	.04500	.01280	.27770	.02485	.00540	.02020	-.02500	.64300	.01626
.201	6.270	.37600	.05790	.01630	.38010	.01653	.00550	.02030	-.02400	.64400	.01679
.201	8.320	.47210	.07970	.02020	.47870	.01052	.00560	.02070	-.02600	.64400	.01664
.201	10.410	.57250	.10900	.02430	.58280	.00366	.00560	.02080	-.02700	.64500	.01714
.201	12.490	.67450	.14260	.02950	.68940	-.00665	.00610	.02080	-.02900	.64400	.01940
.201	14.560	.77770	.18210	.03460	.79850	-.01923	.00630	.02070	-.03200	.64400	.02223
.201	16.640	.87960	.23120	.03800	.90920	-.03049	.00600	.01930	-.03000	.64500	.02396
.201	18.720	.97160	.30410	.03550	1.01780	-.02394	.01150	.02480	-.04200	.64700	.02606
.201	20.780	1.03620	.37640	.03990	1.10230	-.01590	.00520	.01980	-.02600	.64700	.03200
.201	22.840	1.07800	.43730	.04910	1.16320	-.01551	.00260	.01520	-.01900	.64400	.03566
.201	24.880	1.09710	.49270	.05940	1.20250	-.01421	.00150	.00980	-.00600	.64200	.04186
.201	26.930	1.12580	.55450	.07000	1.25490	-.01550	.00110	.00590	.00000	.64000	.04846
.201	28.940	1.14040	.61080	.08420	1.29350	-.01727	.00190	.00620	.00300	.63600	.05287
.201	30.990	1.13590	.66280	.09430	1.31500	-.01590	.00050	.00640	.00500	.63400	.05422
	GRADIENT	.04731	.00086	.00198	.04811	-.00054	.00005	.00021	-.00007	-.00113	.00006

OA71A B16C5 D7 F1J14W87 E18V3R3X10 (RDS025) (10 OCT 73)

REFERENCE DATA

SREF =	4.4122 SQ.FT.	XMRP =	43.5974 INCHES		
LREF =	19.2299 INCHES	YMRP =	.0000 INCHES		
BREF =	37.9349 INCHES	ZMRP =	16.2000 INCHES		
SCALE =	.0405 SCALE				

PARAMETRIC DATA

ALPHA =	10.000	BDFLAP =	-18.000
ELEVON =	.000	AILRON =	.000
VTLINC =	.000	RUDDER =	.000
SPDBRK =	.000	NACX/L =	.200

RUN NO. 25/ 0 RN/L = 1.44 GRADIENT INTERVAL = -6.00/ 6.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.201	-10.100	.58600	.09620	.01390	.59370	-.01155	-.00310	.01450	.22400	.65100	.02210
.201	-5.040	.58380	.10130	.01870	.59250	-.00620	-.00190	.00830	.11000	.64800	.01936
.201	.020	.57830	.10710	.02150	.58610	.00097	.00090	-.00160	.00100	.64600	.01734
.201	5.090	.57810	.10280	.01850	.58720	-.00353	.00280	-.01080	-.10400	.64800	.01834
.201	10.110	.57960	.09520	.01430	.58720	-.01133	.00510	-.01840	-.22200	.65100	.02213
	GRADIENT	-.00037	.00015	-.00002	-.00053	.00027	.00047	-.00189	-.02121	-.00000	-.00010

OA71A B16C5 D7 F1J14W87 E18V3R3X10 (RDS026) (10 OCT 73)

REFERENCE DATA

SREF =	4.4122 SQ.FT.	XMRP =	43.5974 INCHES		
LREF =	19.2299 INCHES	YMRP =	.0000 INCHES		
BREF =	37.9349 INCHES	ZMRP =	16.2000 INCHES		
SCALE =	.0405 SCALE				

PARAMETRIC DATA

BETA =	.000	BDFLAP =	-18.000
ELEVON =	5.000	AILRON =	.000
VTLINC =	.000	RUDDER =	.000
SPDBRK =	.000	NACX/L =	.200

RUN NO. 26/ 0 RN/L = 1.44 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.201	-4.030	-.00830	.03340	-.05240	-.01060	.03202	.00140	-.00127	-.00700	-1.09600	.01836
.201	-1.940	.09240	.03260	-.04940	.09130	.03572	.00120	-.00140	-.00500	.85300	.01868
.201	-.890	.14100	.03430	-.04740	.14040	.03650	.00130	-.00120	-.00500	.78000	.01816
.201	.120	.19030	.03630	-.04550	.19040	.03594	.00090	-.00130	-.00300	.74100	.01833
.201	1.160	.23770	.03940	-.04350	.23850	.03460	.00110	-.00130	-.00200	.72500	.01825
.201	2.190	.28650	.04350	-.04100	.28800	.03250	.00110	-.00130	-.00200	.71000	.01748
.201	4.250	.38230	.05450	-.03640	.38530	.02594	.00090	-.00160	.00000	.69300	.01775
.201	6.350	.48340	.07200	-.03330	.48040	.01811	.00090	-.00150	.00000	.68400	.01778
.201	8.410	.57890	.09750	-.02990	.58700	.01172	.00080	-.00140	.00000	.67800	.01854
.201	10.460	.67570	.12950	-.02470	.68300	.00446	.00060	-.00100	.00100	.67250	.01933
.201	12.570	.78150	.16720	-.02030	.79010	-.00689	.00040	-.00140	.00200	.66900	.02260
.201	14.650	.87950	.21130	-.01510	.89430	-.01809	.00040	-.00130	.00200	.66500	.02595
.201	16.720	.98070	.26450	-.01210	1.01540	-.02882	.00190	-.00260	.00000	.66400	.02636
.201	18.800	1.05740	.34040	-.01110	1.11070	-.01858	.00890	.00750	-.01500	.66300	.03007
.201	20.840	1.09910	.41550	-.00460	1.17500	-.00284	.00090	.00040	.00300	.66100	.03412
.201	22.090	1.14410	.47410	.01010	1.23850	-.00825	.00090	.00000	.00100	.65700	.03818
.201	24.930	1.15540	.52860	.02570	1.27050	-.00771	.00200	-.00190	.00500	.65200	.04362
.201	26.990	1.17990	.58850	.03090	1.31950	-.01111	.00190	-.00350	.00500	.64900	.05093
.201	28.930	1.19030	.64510	.05320	1.35430	-.01285	.00200	.00000	.00000	.64500	.05557
.201	30.970	1.17690	.69070	.06910	1.36450	-.01361	.00030	.00040	.00300	.64100	.06047
	GRADIENT	.04714	.00256	.00195	.04778	-.00082	-.00006	-.00003	.01005	.15764	-.00011

OA71A B16C5 D7 F1J14W87 E1&V3R3X10 (RDS027) (10 OCT 73)

REFERENCE DATA

SREF = 4.4122 SQ.FT. XMRP = 43.5974 INCHES
LREF = 19.2299 INCHES YMRP = .0000 INCHES
BREF = 37.9349 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

BETA = .000 BDFLAP = -18.000
ELEVON = .000 AILRON = 5.000
VTLINC = .000 RUDDER = .000
SPDBRK = .000 NACX/L = .200

RUN NO. 27/ 0 RN/L = 1.44 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.201	-4.100	-.11880	.03780	-.00370	-.12120	.02920	.00500	.01680	-.02500	.64800	.01585
.201	-2.010	-.01720	.03380	.00000	-.01840	.03325	.00530	.01890	-.02400	.66000	.01602
.201	-.670	.03200	.03360	.00190	.03150	.03416	.00570	.01920	-.02600	.63800	.01573
.201	.080	.06200	.03330	.00390	.06210	.03327	.00590	.01980	-.02700	.64200	.01665
.201	1.090	.12640	.03350	.00590	.12900	.03309	.00570	.01980	-.02500	.64300	.01576
.201	2.110	.17820	.03720	.00810	.17940	.03061	.00560	.02030	-.02600	.64300	.01647
.201	4.180	.27510	.04500	.01280	.27770	.02485	.00549	.02020	-.02500	.64300	.01626
.201	6.270	.37600	.05790	.01630	.38010	.01653	.00550	.02030	-.02400	.64400	.01679
.201	8.320	.47210	.07970	.02020	.47870	.01052	.00560	.02070	-.02600	.64400	.01664
.201	10.410	.57250	.10900	.02430	.58280	.00366	.00560	.02080	-.02700	.64500	.01714
.201	12.490	.67430	.14260	.02950	.68940	-.00665	.00610	.02080	-.02900	.64400	.01940
.201	14.560	.77770	.18210	.03460	.79850	-.01923	.00630	.02070	-.03200	.64400	.02223
.201	16.640	.87980	.23120	.03800	.90920	-.03049	.00600	.01930	-.03000	.64500	.02396
.201	18.720	.97160	.30410	.03550	1.01780	-.02394	.01150	.02480	-.04200	.64700	.02806
.201	20.780	1.03620	.37640	.03990	1.10230	-.01590	.00520	.01980	-.02600	.64700	.03200
.201	22.840	1.07800	.43730	.04910	1.16320	-.01551	.00280	.01520	-.01900	.64400	.03566
.201	24.860	1.09710	.49270	.05940	1.20250	-.01421	.00150	.00980	-.00600	.64200	.04186
.201	26.930	1.12580	.55450	.07000	1.25490	-.01550	.00110	.00590	.00000	.64000	.04846
.201	28.940	1.14040	.61080	.08420	1.29350	-.01727	.00100	.00620	.00300	.63600	.05287
.201	30.950	1.13590	.66280	.09430	1.31500	-.01590	.00030	.00640	.00500	.63400	.05422
	GRADIENT	.04751	.00086	.00198	.04811	-.00054	.00005	.00021	-.00007	-.00113	.00006

OA71A B16C5 D7 F1J14W87 E18V3R3X10 (RDS028) (10 OCT 73)

REFERENCE DATA

SREF =	4.4122 SQ.FT.	XMRP =	40.5974 INCHES		
LREF =	19.2299 INCHES	YMRP =	.0000 INCHES		
BREF =	37.9349 INCHES	ZMRP =	16.2000 INCHES		
SCALE =	.0405 SCALE				

PARAMETRIC DATA

BETA =	.000	BDFLAP =	-18.000
ELEVON =	-10.000	AILRON =	.000
VTLINC =	.000	RUDDER =	.000
SPDBRK =	.000	NACX/L =	.200

RUN NO. 28/ 0 RN/L = 1.44 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.201	-4.200	-.32140	.05360	.08570	-.32450	.02994	.00150	-.00250	-.00400	.75400	.01093
.201	-2.120	-.22250	.04370	.08930	-.22390	.03543	.00140	-.00210	-.00400	.80200	.01119
.201	-1.070	-.16980	.04040	.09180	-.17050	.03726	.00130	-.00210	-.00300	.85200	.01121
.201	-.050	-.12130	.03760	.09400	-.12140	.03753	.00120	-.00190	-.00200	.93600	.01127
.201	.970	-.07160	.03560	.09650	-.07100	.03689	.00110	-.00180	-.00200	1.14600	.01147
.201	2.000	-.02160	.03470	.09880	-.02040	.03547	.00110	-.00170	-.00100	2.38900	.01180
.201	4.080	.07560	.03600	.10430	.07800	.03053	.00100	-.00150	.00000	.18200	.01138
.201	6.150	.17260	.04140	.10870	.17620	.02264	.00100	-.00150	.00000	.43900	.01151
.201	8.210	.26860	.05450	.11380	.27360	.01564	.00120	-.00130	.00100	.51100	.01205
.201	10.300	.37050	.07740	.11710	.37840	.00994	.00110	-.00130	.00300	.54900	.01338
.201	12.380	.47160	.10390	.12240	.48290	.00037	.00110	-.00120	.00100	.56900	.01488
.201	14.460	.57460	.13710	.12720	.59070	-.01068	.00120	-.00150	.00200	.56200	.01655
.201	16.550	.67890	.17690	.13180	.70120	-.02389	.00180	-.00200	.00200	.59200	.01881
.201	18.610	.77260	.23870	.13070	.80840	-.02045	.00940	.00120	-.01500	.60200	.02162
.201	20.700	.85380	.30810	.12880	.90760	-.01351	.00040	-.00200	.00900	.60900	.02478
.201	22.730	.91250	.36540	.12980	.98280	-.01562	.00310	-.00250	.00700	.61200	.02833
.201	24.800	.95610	.42450	.13190	1.04600	-.01584	.00260	-.00160	.00700	.61400	.03378
.201	26.850	1.00060	.49130	.13710	1.12000	-.01634	.00230	-.00210	.00700	.61600	.03793
.201	28.880	1.03870	.55210	.14530	1.17620	-.01832	.00270	.00030	.00300	.61500	.04184
.201	30.900	1.04800	.60430	.15410	1.20960	-.01974	.00130	.00380	.00000	.61400	.04643
	GRADIENT	.04811	-.00215	.00226	.04877	.00005	-.00006	.00012	.00153	.02670	.00008

OA71A B16C5 D7 F1J14W87 E16V3R3X10 (RDS029) (10 OCT 73)

REFERENCE DATA

SREF =	4.4122 SQ.FT.	XMRP =	43.5974 INCHES		
LREF =	19.2299 INCHES	YMRP =	.0000 INCHES		
BREF =	37.9349 INCHES	ZMRP =	16.2000 INCHES		
SCALE =	.0405 SCALE				

PARAMETRIC DATA

BETA =	.000	SDFLAP =	-16.000
ELEVON =	-10.000	AILRON =	.000
VTLINC =	.000	RUDDER =	.000
SPDBRK =	.000	NACX/L =	.200

RUN NO. 29/ 0 RN/L = 1.44 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.201	-4.200	-.32610	.03260	.08580	-.32910	.02854	.00120	-.00210	-.00700	.75300	.01105
.201	-2.120	-.22850	.04210	.09000	-.22990	.03369	.00130	-.00150	-.00700	.80000	.01124
.201	-1.100	-.17910	.03620	.09210	-.17980	.03462	.00110	-.00140	-.00600	.84300	.01150
.201	-.090	-.12630	.03560	.09470	-.12630	.03549	.00110	-.00130	-.00500	.92400	.01165
.201	.980	-.07660	.03350	.09730	-.07600	.03462	.00110	-.00140	-.00500	1.11700	.01166
.201	1.990	-.02620	.03270	.09940	-.02500	.03361	.00110	-.00130	-.00400	2.07800	.01155
.201	4.080	.07260	.03340	.10440	.07480	.02816	.00090	-.00130	-.00300	.16100	.01152
.201	6.140	.16770	.03910	.10810	.17090	.02096	.00090	-.00130	-.00100	.43300	.01130
.201	8.210	.26300	.05200	.11350	.26770	.01398	.00140	-.00110	-.00200	.50800	.01195
.201	10.290	.36500	.07420	.11710	.37230	.00777	.00110	-.00130	.00000	.54700	.01283
.201	12.360	.46740	.10140	.12240	.47820	-.00116	.00130	-.00090	-.00100	.56800	.01481
.201	14.470	.57250	.13480	.12710	.58600	-.01253	.00150	-.00130	.00000	.58200	.01699
.201	16.530	.67930	.17540	.13200	.70110	-.02516	.00160	-.00170	.00000	.59200	.01866
.201	18.620	.77440	.23190	.13100	.80960	-.02249	.00950	.00130	-.01400	.60200	.02177
.201	20.690	.85700	.30470	.12870	.90940	-.01776	.00200	-.00070	.00300	.60900	.02467
.201	22.750	.91320	.36360	.13010	.96280	-.01756	.00320	-.00230	.00400	.61200	.02695
.201	24.790	.95310	.42010	.13210	1.04150	-.01826	.00260	-.00210	.00500	.61400	.03406
.201	26.820	1.00070	.48780	.13670	1.11320	-.01629	.00150	-.00200	.00500	.61600	.03766
.201	28.870	1.03590	.54860	.14620	1.17200	-.01993	.00150	-.00130	.00600	.61500	.04293
.201	30.900	1.04290	.60090	.15580	1.20350	-.02016	.00030	.00140	.00200	.61300	.04770
	GRADIENT	.04650	-.00232	.00227	.04913	-.00004	-.00004	.00008	.00053	.01053	.00006

OA71A B16C5 D7 F1J14W87 E16V5R3X10 (RDS030) (10 OCT 73)

REFERENCE DATA

SREF =	4.4122 SQ.FT.	XMRP =	43.5974 INCHES		
LREF =	19.2299 INCHES	YMRP =	.0000 INCHES		
BREF =	37.9349 INCHES	ZMRP =	16.2000 INCHES		
SCALE =	.0405 SCALE				

PARAMETRIC DATA

BETA =	.000	BDFLAP =	-18.000
ELEVON =	.000	AILRON =	10.000
VTLINC =	.000	RUDDER =	.000
SPDBRK =	.000	NACX/L =	.200

RUN NO. 30/ 0 RN/L = 1.44 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.201	-4.080	-.10910	.04380	-.00740	-.10800	.03635	.00830	.03590	-.04000	.63400	.01783
.201	-1.990	-.00400	.04040	-.00340	-.00540	.04030	.00910	.03690	-.04400	.63700	.01798
.201	-.940	.04560	.03960	-.00100	.04490	.04041	.00920	.03730	-.04500	.66700	.01799
.201	.080	.09480	.04080	.00110	.09490	.04073	.00940	.03750	-.04600	.65500	.01785
.201	1.070	.14260	.04250	.00330	.14340	.03982	.00950	.03790	-.04700	.65100	.01766
.201	2.130	.19220	.04490	.00570	.19380	.03776	.00960	.03810	-.04700	.64900	.01774
.201	4.180	.28350	.05220	.01170	.28650	.03143	.00990	.03830	-.04900	.64500	.01747
.201	6.260	.38260	.06560	.01470	.38770	.02352	.00990	.03920	-.05100	.64600	.01746
.201	8.330	.47780	.08790	.01640	.48550	.01770	.01010	.04000	-.05200	.64600	.01791
.201	10.390	.57370	.11570	.02400	.58520	.01033	.01000	.04000	-.05300	.64500	.01846
.201	12.480	.67690	.15030	.02990	.69340	.00045	.01030	.04030	-.05700	.64400	.01955
.201	14.550	.77670	.19060	.03480	.79970	-.01043	.01050	.04020	-.05950	.64400	.02101
.201	16.660	.87540	.23820	.04000	.90700	-.02273	.01040	.03860	-.05900	.64400	.02360
.201	18.720	.96640	.31440	.03840	1.01620	-.01251	.01230	.04210	-.06100	.64600	.02809
.201	20.760	1.01670	.38530	.04240	1.08720	-.00024	.00500	.03060	-.03900	.64600	.03281
.201	22.820	1.06320	.44180	.05270	1.15140	-.00512	.00330	.02710	-.03400	.64300	.03718
.201	24.830	1.06370	.49500	.06300	1.19140	-.00599	.00090	.02380	-.02500	.64100	.04253
.201	26.890	1.11210	.55610	.07470	1.24330	-.00713	.00080	.01810	-.01250	.63800	.04880
.201	28.930	1.13110	.61290	.08910	1.28640	-.01077	.00080	.01360	.00000	.63500	.05415
.201	30.940	1.12510	.66240	.10030	1.30560	-.01051	-.00090	.01450	.00300	.63200	.05606
	GRADIENT	.04703	.00105	.00228	.04775	-.00059	.00018	.00029	-.00102	.01041	-.00005

OA71A B16C5 D7 F1J14W87 E16V3R3X10 (RDS031) (10 OCT 73)

REFERENCE DATA

SREF =	4.4122 SQ.FT.	XMRP =	43.5974 INCHES		
LREF =	19.2299 INCHES	YMRP =	.0000 INCHES		
BREF =	37.9349 INCHES	ZMRP =	16.2000 INCHES		
SCALE =	.0405 SCALE				

PARAMETRIC DATA

BETA =	.000	BDFLAP =	-18.000
ELEVON =	10.000	AILRON =	.000
VTLINC =	.000	RUDDER =	.000
SPDBRK =	.000	NACX/L =	.200

RUN NO. 31/ 0 RN/L = 1.44 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.201	-3.970	.09690	.03570	-.09770	.09410	.04241	.00130	-.00170	-.00300	1.03000	.02091
.201	-1.900	.19290	.03910	-.09490	.19150	.04555	.00130	-.00160	.00000	.85700	.02087
.201	-.830	.24170	.04280	-.09250	.24110	.04635	.00140	-.00160	-.00100	.79700	.01992
.201	.180	.29000	.04580	-.08990	.29020	.04486	.00120	-.00190	.00100	.77000	.02045
.201	1.200	.33640	.05080	-.08800	.33740	.04377	.00120	-.00190	.00000	.75300	.01984
.201	2.250	.38400	.05630	-.08550	.38590	.04122	.00120	-.00180	.00000	.73900	.01946
.201	4.290	.47440	.07010	-.07970	.47830	.03441	.00130	-.00180	.00000	.71900	.01931
.201	6.380	.57690	.09160	-.07730	.58350	.02693	.00120	-.00170	.00200	.70700	.01921
.201	8.450	.67360	.12070	-.07300	.68400	.02038	.00100	-.00120	.00300	.69800	.01996
.201	10.530	.76780	.15510	-.06690	.78320	.01210	.00040	-.00130	.00400	.69000	.02137
.201	12.610	.86910	.19570	-.06130	.89070	.00125	.00010	-.00100	.00500	.68400	.02357
.201	14.670	.96490	.24330	-.05570	.99510	-.00894	.00010	-.00090	.00500	.68000	.02465
.201	16.770	1.06990	.30310	-.05270	1.11190	-.01854	.00090	-.00270	.00300	.67600	.02846
.201	18.830	1.12260	.38690	-.04850	1.15740	.00373	.00550	.00850	-.01000	.67400	.03317
.201	20.880	1.15780	.45300	-.03570	1.24320	.01065	.00090	.00040	.00400	.67000	.03669
.201	22.910	1.18920	.51010	-.01860	1.29400	.00680	.00090	.00030	.00400	.66500	.04061
.201	24.940	1.20320	.56400	-.00060	1.32890	.00389	.00220	-.00120	.00400	.66000	.04627
.201	26.970	1.21140	.61770	.01790	1.35990	.00112	.00160	-.00140	.00400	.65500	.05426
.201	28.990	1.21990	.67330	.03390	1.39340	-.00241	.00170	.00000	.00300	.65100	.05914
.201	31.000	1.20590	.72270	.04910	1.40590	-.00156	.00000	.00160	.00500	.64700	.06177
	GRADIENT	.04561	.00415	.00220	.04662	-.00099	-.00001	-.00002	.00030	-.03428	-.00021

OA71A B16C5 D7 F1J14W87 E16V3R3X10 (RDS032) (10 OCT 73)

REFERENCE DATA

SREF =	4.4122 SQ.FT.	XMRP =	43.5974 INCHES		
LREF =	19.2299 INCHES	YMRP =	.0000 INCHES		
BREF =	37.9349 INCHES	ZMRP =	16.2000 INCHES		
SCALE =	.0405 SCALE				

PARAMETRIC DATA

BETA =	.000	BDFLAP =	-10.000
ELEVON =	-20.000	AILRON =	.000
VTLINC =	.000	RUDDER =	.000
SPDBRK =	.000	NACX/L =	.200

RUN NO. 32/ 0 RN/L = 1.44 GRADIENT INTERVAL = -9.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.201	-4.290	-.49650	.08140	.15650	-.50320	.04395	.00110	-.00190	-.00800	.77100	.00909
.201	-2.200	-.40190	.06570	.16060	-.40410	.05020	.00100	-.00120	-.00900	.60200	.00904
.201	-1.170	-.35190	.05970	.16260	-.35300	.05255	.00110	-.00100	-.00700	.62400	.00880
.201	-.140	-.30050	.05410	.16470	-.30060	.05343	.00110	-.00070	-.00700	.65500	.00911
.201	.880	-.25120	.04970	.16710	-.25040	.05363	.00110	-.00060	-.00700	.69800	.00922
.201	1.910	-.20140	.04580	.16950	-.19970	.05257	.00120	-.00050	-.00700	.96300	.00945
.201	3.990	-.10020	.04110	.17410	-.09710	.04804	.00110	-.00070	-.00600	1.30000	.00950
.201	6.080	-.00700	.04120	.17920	-.00260	.04176	.00080	-.00030	-.00400	25.23400	.00945
.201	8.130	.08310	.04660	.19090	.08680	.03437	.00100	.00010	-.00300	-.10800	.00994
.201	10.200	.17390	.06050	.19810	.18190	.02862	.00150	-.00020	-.00200	.27000	.01081
.201	12.250	.27040	.08150	.20470	.28160	.02222	.00150	-.00050	-.00200	.40000	.01204
.201	14.340	.37290	.10890	.21080	.38820	.01313	.00200	-.00090	.00000	.46500	.01392
.201	16.430	.47330	.14080	.21570	.49380	.00116	.00230	-.00100	.00000	.50300	.01649
.201	18.520	.57090	.19350	.21430	.60840	.00021	.00730	-.00110	-.00700	.53400	.01842
.201	20.590	.66840	.25080	.21420	.71390	-.00039	.00250	-.00080	.00000	.55200	.02182
.201	22.640	.74260	.30460	.21040	.80260	-.00480	.00370	-.00140	.00100	.56600	.02518
.201	24.700	.79860	.36540	.20520	.87830	-.00171	.00220	-.00170	.00300	.57600	.02922
.201	26.780	.85460	.42800	.20680	.95580	-.00265	.00240	-.00160	.00300	.58200	.03325
.201	28.800	.89640	.48830	.21190	1.02080	-.00406	.00190	-.00110	.00100	.58500	.03595
.201	30.830	.92430	.54400	.21750	1.07250	-.00665	.00140	.00140	-.00200	.58700	.04144
	GRADIENT	.04828	-.00486	.00212	.04922	.00051	.00001	.00015	.00028	.15790	.00007

OA71A B16C5 D7 F1J14W87 E18V3R3X10 (RDS033) (10 OCT 73)

REFERENCE DATA

SREF =	4.4122 SQ.FT.	XMRP =	45.5974 INCHES		
LREF =	19.2299 INCHES	YMRP =	.0000 INCHES		
BREF =	37.9349 INCHES	ZMRP =	16.2000 INCHES		
SCALE =	.0405 SCALE				

PARAMETRIC DATA

BETA =	.000	BDFLAP =	-18.000
ELEVON =	.000	AILRON =	15.000
VTLINC =	.000	RUDDER =	.000
SPDBRK =	.000	NACX/L =	.200

RUN NO. 33/ 0 RN/L = 1.44 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.201	-4.070	-.09980	.03280	-.01210	-.10330	.04556	.01080	.05370	-.06000	.61700	.01930
.201	-1.990	-.00400	.03080	-.00720	-.00570	.03046	.01140	.05450	-.06300	.20900	.01827
.201	-.980	.04670	.04990	-.00490	.04520	.03072	.01170	.05540	-.06600	.69800	.01911
.201	.070	.09650	.05050	-.00200	.09630	.03045	.01200	.05580	-.06800	.66700	.01923
.201	1.100	.14250	.03240	.00090	.14330	.04986	.01220	.05590	-.06800	.65700	.01847
.201	2.120	.18940	.05450	.00380	.19030	.04746	.01250	.05580	-.07000	.65200	.01835
.201	4.200	.27770	.08250	.01040	.28160	.04204	.01260	.05550	-.07000	.64600	.01756
.201	6.250	.37860	.07380	.01170	.38480	.03416	.01310	.05710	-.07500	.64900	.01814
.201	8.330	.47520	.09800	.01800	.48440	.02812	.01340	.05900	-.07900	.64800	.01879
.201	10.390	.57280	.12690	.02070	.58630	.02111	.01350	.05970	-.08000	.64700	.01957
.201	12.490	.67180	.16060	.02700	.69040	.01153	.01370	.06000	-.08400	.64500	.02028
.201	14.580	.78020	.20090	.03280	.79500	.00097	.01380	.05920	-.08500	.64500	.02160
.201	16.680	.88880	.24700	.04110	.90110	-.01173	.01360	.05750	-.08700	.64300	.02446
.201	18.700	.94820	.32220	.05770	1.00240	.00081	.01220	.05520	-.08000	.64600	.02836
.201	20.770	.99160	.38680	.04510	1.06510	.01168	.00560	.04190	-.05600	.64400	.03413
.201	22.810	1.05520	.44250	.05590	1.12500	.00652	.00350	.03700	-.04600	.64200	.03743
.201	24.880	1.06370	.49600	.06700	1.17370	.00272	.00040	.03320	-.03400	.63900	.04489
.201	26.890	1.08690	.55310	.07990	1.21960	.00168	.00040	.02720	-.02000	.63600	.04949
.201	28.920	1.11010	.61140	.09180	1.26730	-.00173	.00010	.02300	-.00900	.63400	.05395
.201	30.980	1.11250	.66290	.10480	1.29500	-.00395	-.00110	.02250	-.00500	.63100	.05799
	GRADIENT	.04592	.00113	.00272	.04681	-.00045	.00023	.00024	-.00129	.02210	-.00017

OA71A B1#CS D7 F1J17W87 E18V3R3X10 (RDS035) (10 OCT 73)

REFERENCE DATA

SREF =	4.4122 SQ.FT.	XMRP =	43.5974 INCHES		
LREF =	19.2299 INCHES	YMRP =	.0000 INCHES		
BREF =	37.9349 INCHES	ZMRP =	16.2000 INCHES		
SCALE =	.0405 SCALE				

PARAMETRIC DATA

BETA =	.000	BOFLAP =	-10.000
ELEVON =	.000	AILRON =	15.000
VTLINC =	.000	RUDDER =	.000
SPDBRK =	.000	NACX/L =	.200

RUN NO. 35/ 0 RN/L = 1.44 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.201	-4.060	-.10480	.09000	-.01080	-.10600	.04247	.01110	.05540	-.06000	.62300	.01787
.201	-1.990	-.00740	.04690	-.00760	-.00900	.04671	.01160	.05620	-.06300	.35700	.01773
.201	-.990	.04180	.04650	-.00570	.04080	.04724	.01170	.05660	-.06400	.71000	.01778
.201	.070	.09210	.04730	-.00320	.09220	.04722	.01210	.05680	-.06600	.67200	.01753
.201	1.100	.14090	.04690	-.00120	.14160	.04624	.01240	.05690	-.06700	.66300	.01789
.201	2.120	.18800	.05150	.00160	.18780	.04463	.01260	.05700	-.06900	.65600	.01716
.201	4.190	.28090	.05810	.00690	.28380	.03745	.01290	.05700	-.07000	.65100	.01805
.201	6.270	.37840	.07090	.00930	.38390	.02921	.01330	.05800	-.07400	.65100	.01831
.201	8.340	.48350	.09300	.01080	.49190	.02183	.01370	.06100	-.07900	.65200	.01799
.201	10.410	.58240	.11900	.01740	.59440	.01175	.01400	.06230	-.08300	.64900	.01892
.201	12.380	.68650	.15390	.02340	.70350	.00098	.01420	.06300	-.08500	.64800	.01909
.201	14.370	.78280	.19270	.02870	.80610	-.01050	.01430	.06320	-.08800	.64700	.02091
.201	16.980	.87390	.23750	.03750	.90530	-.02297	.01430	.06310	-.09100	.64500	.02378
.201	18.720	.96090	.30650	.03480	1.00790	-.01796	.01830	.06070	-.09700	.64700	.02652
.201	20.800	1.02790	.36780	.04340	1.09110	-.02118	.01140	.05390	-.07700	.64500	.03145
.201	22.840	1.07130	.42760	.05200	1.15330	-.02184	.00720	.04410	-.06000	.64300	.03442
.201	24.880	1.08970	.48520	.06170	1.19270	-.01842	.00290	.03120	-.03600	.64100	.04070
.201	26.910	1.10560	.54440	.06800	1.23230	-.01501	.00230	.02390	-.02200	.64000	.04949
.201	28.940	1.13570	.60720	.07790	1.28770	-.01835	.00290	.02100	-.01800	.63800	.05365
.201	30.960	1.14560	.66220	.09010	1.32250	-.02115	.00180	.01710	-.00600	.63500	.05684
	GRADIENT	.04583	.00102	.00217	.04765	-.00058	.00023	.00019	-.00127	.01533	-.00001

CA71A B16C8 07 F1J17W37 E16V3R3X10 (RC9037) (10 OCT 75)

REFERENCE DATA

SREF =	4.4122 SQ.FT.	XMRP =	43.9974 INCHES
LREF =	19.2299 INCHES	YMRP =	.0000 INCHES
BREF =	37.9349 INCHES	ZMRP =	16.2000 INCHES
SCALE =	.0405 SCALE		

PARAMETRIC DATA

BETA =	.000	SDFLAP =	-18..00
ELEVON =	-20.000	AILRON =	.000
VTLINC =	.000	RUDDER =	.000
SPDBRK =	.000	NACX/L =	.200

RUN NO. 37/ 0 RN/L = 1.44 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.201	-4.280	-.51110	.07920	.16130	-.51360	.04100	.00130	-.00320	-.00500	.77100	.00969
.201	-2.210	-.40400	.06450	.16140	-.40620	.04083	.00020	-.00110	-.00200	.80200	.00970
.201	-1.190	-.35310	.05690	.16400	-.35420	.05144	.00050	-.00110	-.00300	.82500	.00978
.201	-.190	-.30320	.05050	.16570	-.30530	.05173	.00051	-.00110	-.00400	.85400	.00969
.201	.800	-.25410	.04600	.16810	-.25330	.05201	.00050	-.00100	-.00300	.89700	.00990
.201	1.800	-.20400	.04420	.17030	-.20240	.05103	.00080	-.00050	-.00300	.96000	.00972
.201	2.990	-.15370	.03940	.17450	-.10070	.04657	.00040	-.00050	-.00300	1.17900	.00966
.201	4.090	-.01320	.03670	.18050	-.00900	.03993	.00050	-.00020	-.00200	7.76800	.00911
.201	6.120	.08040	.04330	.19920	.08370	.03149	.00080	.00020	.00000	-.12900	.00948
.201	10.220	.17400	.05310	.19960	.18100	.02336	.00100	-.00050	.00000	.26900	.01110
.201	12.280	.27220	.07360	.20780	.28160	.01400	.00100	-.00050	.00000	.39800	.01242
.201	14.350	.36860	.09790	.21440	.38250	.00317	.00120	-.00050	.00000	.45900	.01403
.201	16.430	.46740	.12900	.22200	.48480	-.00842	.00160	-.00010	.00000	.49800	.01597
.201	20.600	.67280	.23980	.21290	.71290	-.01495	.00330	-.00060	-.00300	.55300	.02026
.201	22.670	.78240	.29980	.21110	.80600	-.02280	.00540	-.00240	.00000	.58600	.02324
.201	24.740	.88280	.35390	.20150	.89540	-.02906	.00400	-.00450	.00500	.57900	.02754
.201	26.780	.97980	.41820	.19770	.97120	-.02177	.00270	-.00370	.00400	.58700	.03283
.201	28.840	.92470	.46200	.20030	1.04250	-.02380	.00420	-.00400	.00000	.59100	.03614
.201	30.880	.93530	.54460	.20120	1.10020	-.02306	.00300	-.00310	.00100	.59400	.03924
	GRADIENT	.04920	-.00486	.00175	.05012	.00062	-.00009	.00031	.00014	.05600	-.00002

OA71A B10C5 D7 F1J17W87 E10V3R3X10 (R06038) (10 OCT 73)

REFERENCE DATA

SREF =	4.4122 SQ.FT.	XMRP =	43.9874 INCHES		
LREF =	19.2299 INCHES	YMRP =	.0000 INCHES		
BREF =	37.9349 INCHES	ZMRP =	16.2000 INCHES		
SCALE =	.0405 SCALE				

PARAMETRIC DATA

BETA =	.000	SDFLAP =	-18.000
ELEVON =	10.000	AILRON =	.000
YTLINC =	.000	RUDDER =	.000
SPOSRK =	.000	NACX/L =	.200

RUN NO. 36/ 0 RN/L = 1.44 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.201	-3.960	.00850	.03280	-.09760	.00900	.03886	.00090	-.00170	.00000	1.06900	.02056
.201	-1.880	.18870	.03580	-.09550	.18740	.04206	.00080	-.00180	.00100	.84200	.02022
.201	-.840	.24010	.03910	-.09360	.23950	.04269	.00080	-.00160	.00000	.79900	.01995
.201	.180	.28710	.04250	-.09140	.28720	.04157	.00080	-.00180	.00100	.77300	.02001
.201	1.180	.33240	.04710	-.08960	.33330	.04025	.00070	-.00170	.00200	.73600	.01957
.201	2.230	.38130	.05230	-.08720	.38300	.03736	.00070	-.00200	.00200	.74100	.01933
.201	4.290	.47810	.06570	-.08300	.47970	.02994	.00080	-.00190	.00200	.72100	.01952
.201	6.360	.57650	.08540	-.08080	.58240	.02086	.00040	-.00230	.00400	.70900	.01868
.201	8.450	.67930	.11360	-.07890	.68980	.01253	.00090	-.00210	.00300	.70000	.01998
.201	10.530	.77940	.14800	-.07350	.79330	.00908	.00040	-.00240	.00400	.69300	.02023
.201	12.610	.88100	.18780	-.06910	.90070	-.00816	.00040	-.00190	.00400	.68700	.02221
.201	14.680	.97780	.23560	-.06310	1.00540	-.01994	.00090	-.00110	.00200	.68200	.02352
.201	16.780	1.07090	.28970	-.05670	1.10900	-.03176	.00140	-.00180	.00000	.67800	.02616
.201	18.840	1.16260	.35670	-.05360	1.21640	-.03613	.00250	-.00150	.00000	.67500	.02894
.201	20.890	1.19540	.42670	-.03930	1.26900	-.02755	-.00020	-.00260	.00700	.67100	.03219
.201	22.950	1.23960	.49550	-.02920	1.33120	-.02525	.00290	-.00140	.00100	.66700	.03671
.201	24.960	1.24670	.35660	-.01340	1.36610	-.01945	.00250	-.01080	.01000	.66300	.04393
.201	26.960	1.24340	.61500	.00200	1.38710	-.01613	.00310	-.00590	.00400	.65900	.05253
.201	29.010	1.25290	.67110	.01800	1.42120	-.02080	.00250	-.00340	.00100	.65500	.05642
.201	31.020	1.23920	.71990	.03420	1.43290	-.02186	.00330	-.00160	-.00100	.65100	.06133
	GRADIENT	.04690	.00399	.00163	.04764	-.00110	-.00003	-.00003	.00126	-.03751	-.00015

OA71A B16C5 D7 F1J17W07 E18V8R3X10 (RDS038) (10 OCT.73)

REFERENCE DATA

SREF = 4.4182 SQ.FT. XMRP = 43.2974 INCHES
LREF = 19.2280 INCHES YMRP = .0000 INCHES
BREF = 37.9340 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

BETA = .000 BDFLAP = -10.000
ELEVON = .000 AILRON = 10.000
VTLINC = .000 RUDDER = .000
SPDBRK = .000 MACX/L = .200

RUN NO. 38/ 0 RN/L = 1.44 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.101	-4.070	-.11340	.08850	-.00080	-.11880	.03135	.00750	.03670	-.03800	.63900	.01808
.201	-2.000	-.01080	.03860	-.00330	-.01180	.03804	.00810	.03720	-.04100	.59900	.01794
.201	-.960	.04080	.03840	-.00130	.03880	.03713	.00850	.03760	-.04400	.67200	.01771
.201	.080	.08780	.03700	.00080	.08770	.03801	.00860	.03830	-.04500	.65800	.01765
.201	1.080	.13870	.03750	.00810	.14040	.03829	.00880	.03880	-.04800	.65200	.01831
.201	2.160	.18887	.04110	.00450	.18880	.03306	.00800	.03870	-.04500	.65100	.01761
.201	4.180	.27880	.04780	.00880	.28080	.02730	.00840	.03910	-.04900	.64800	.01748
.201	6.270	.37840	.08880	.01250	.38270	.01798	.00860	.03980	-.05000	.64800	.01808
.201	8.370	.47760	.08080	.01580	.48480	.01020	.01000	.04070	-.05200	.64800	.01826
.201	10.410	.57730	.10730	.02160	.58720	.00117	.01000	.04130	-.05500	.64800	.01815
.201	12.540	.68880	.14040	.02760	.68710	-.01119	.00880	.04160	-.05800	.64500	.01975
.201	14.570	.77880	.18040	.03210	.78880	-.02160	.00870	.04220	-.06000	.64500	.02023
.201	16.670	.87880	.22730	.03680	.90880	-.03488	.00880	.04200	-.06900	.64400	.02336
.201	18.740	.97580	.28860	.03300	1.01980	-.02968	.01300	.04400	-.07300	.64800	.02711
.201	20.780	1.05450	.36080	.04120	1.08500	-.03020	.00870	.05770	-.08400	.64C30	.03005
.201	22.850	1.08760	.48210	.04080	1.18840	-.03515	.00880	.03190	-.04800	.64300	.03286
.201	24.800	1.10840	.48230	.05880	1.20870	-.02846	.00280	.01880	-.02300	.64300	.03690
.201	26.900	1.13150	.54880	.06180	1.25840	-.02497	.00210	.01380	-.01400	.64200	.04931
.201	28.870	1.13840	.60870	.07440	1.30880	-.02723	.00280	.01340	-.01000	.63800	.05412
.201	30.880	1.16440	.68480	.08880	1.34080	-.02810	.00190	.01280	-.00500	.63800	.06809
	GRADIENT	.04774	.00101	.00195	.04637	-.00082	.00023	.00031	-.00124	.0046P	-.00006

OA71A B16C9 D7 F1J17W87 E18V3R3X.0 (RD8040) (10 OCT 73)

REFERENCE DATA

SREF =	4.4122 SQ.FT.	XMRP =	43.5974 INCHES		
LREF =	19.2299 INCHES	YMRP =	.0000 INCHES		
BREF =	37.9349 INCHES	ZMRP =	16.2000 INCHES		
SCALE =	.0403 SCALE				

PARAMETRIC DATA

BETA =	.000	BOFLAP =	-18.000
ELEVON =	-10.000	AILRON =	.000
VTLINC =	.000	RUDDER =	.000
SPDBRK =	.000	NACX/L =	.200

RUN NO. 40/ 0 RN/L = 1.44 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.201	-4.190	-.33640	.04980	.08950	-.33910	.02444	.00090	-.00190	-.00900	.75400	.01121
.201	-2.130	-.23310	.03940	.09260	-.23440	.03028	.00070	-.00140	-.00400	.80100	.01103
.201	-1.080	-.18020	.03540	.09450	-.18080	.03194	.00080	-.00130	-.00900	.84300	.01096
.201	-.090	-.13360	.03290	.09650	-.13360	.03247	.00080	-.00110	-.00400	.91800	.01116
.201	.970	-.08280	.03050	.09890	-.08250	.03198	.00070	-.00140	-.00300	1.08900	.01123
.201	2.020	-.03270	.02930	.10080	-.03170	.03048	.00080	-.00120	-.00300	1.79700	.01124
.201	4.070	.06540	.02980	.10510	.06730	.02515	.00080	-.00140	.00000	.10100	.01159
.201	6.150	.16340	.03450	.10990	.16820	.01683	.00070	-.00120	-.00100	.42300	.01164
.201	8.230	.26430	.04600	.11410	.26820	.00799	.00080	-.00140	.00000	.50700	.01224
.201	10.300	.36300	.06800	.11980	.36690	.00003	.00070	-.00130	.00000	.54300	.01289
.201	12.380	.46950	.09100	.12550	.47420	-.01092	.00070	-.00130	.00000	.56500	.01430
.201	14.460	.58080	.12290	.13090	.58230	-.02324	.00070	-.00140	.00000	.57900	.01595
.201	16.540	.67280	.16240	.13540	.69120	-.03589	.00130	-.00090	.00000	.58900	.01836
.201	18.600	.78460	.20980	.13940	.79520	-.04765	.00210	-.00200	-.00100	.59700	.02044
.201	20.710	.88050	.25870	.12850	.90700	-.03437	.00360	.00080	-.00300	.60900	.02373
.201	22.780	.98120	.34910	.13000	.99370	-.03640	.00310	-.00180	.00000	.61300	.02551
.200	24.810	.98370	.41280	.12770	1.06780	-.03926	.00310	-.00640	.00700	.61700	.03174
.201	26.880	1.01820	.47770	.12890	1.12240	-.03302	.00290	-.00500	.00400	.61800	.03747
.201	28.890	1.09190	.54080	.13530	1.16220	-.03503	.00330	-.00440	.00300	.61900	.04232
.201	30.920	1.08620	.59890	.14280	1.22420	-.03521	.00330	-.00260	.00100	.61800	.04558
	GRADIENT	.04699	-.00235	.00192	.04915	.00008	-.00003	.00105	.00055	-.00833	.00005

CA71A B16C5 D7 F1J17W87 E16V3R3X10 (RDS041) (10 OCT 73)

REFERENCE DATA

SREF =	4.4122 SQ.FT.	XMRP =	43.9974 INCHES
LREF =	19.2299 INCHES	YMRP =	.0000 INCHES
BREF =	37.9349 INCHES	ZMRP =	16.2000 INCHES
SCALE =	.0409 SCALE		

PARAMETRIC DATA

BETA =	.000	BOFLAP =	-10.000
ELEVON =	.000	AILRON =	5.000
VTLINC =	.000	RUDDER =	.000
SPDBRK =	.000	NACX/L =	.200

RUN NO. 41/ 0 RN/L = 1.44 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.201	-4.110	-.12970	.05380	-.00840	-.12880	.02498	.00510	.01890	-.02400	.83300	.01536
.201	-2.000	-.02530	.02970	.00070	-.02440	.02991	.00560	.01920	-.02600	.87100	.01574
.201	-.980	.02890	.02970	.00830	.02940	.03022	.00550	.01910	-.02400	.83100	.01531
.201	.080	.07880	.02970	.00400	.07890	.02984	.00560	.01930	-.02400	.84100	.01577
.201	1.090	.12940	.05130	.00970	.13000	.02998	.00570	.01980	-.02600	.84400	.01557
.201	2.120	.17880	.05280	.00770	.17930	.02927	.00550	.01960	-.02500	.84400	.01638
.201	4.190	.27780	.04040	.01090	.27920	.02009	.00560	.01990	-.02600	.84600	.01583
.201	6.280	.37700	.05270	.01270	.38090	.01128	.00590	.02090	-.02700	.84600	.01590
.201	8.380	.48140	.07360	.01530	.48700	.00905	.00590	.02080	-.02900	.84600	.01638
.201	10.480	.58010	.10000	.02000	.58870	-.00658	.00600	.02070	-.02900	.84700	.01718
.201	12.510	.68040	.13330	.02420	.70200	-.01926	.00620	.02120	-.03300	.84700	.02023
.201	14.580	.78080	.17340	.02810	.80670	-.03132	.00570	.02080	-.03100	.84700	.02085
.201	16.680	.88080	.21780	.03360	.91470	-.04623	.00550	.02080	-.03200	.84600	.02377
.201	18.720	.97940	.27120	.03730	1.02360	-.05752	.00590	.01780	-.03100	.84600	.02479
.201	20.810	1.08550	.33350	.03920	1.11820	-.04458	.00530	.01880	-.03000	.84600	.02643
.201	22.890	1.18480	.41710	.04350	1.17980	-.04493	.00340	.01640	-.02400	.84600	.03168
.201	24.980	1.14410	.46240	.05160	1.24080	-.04385	.00170	.01340	-.02100	.84500	.03409
.201	28.980	1.19830	.54280	.06030	1.27870	-.03984	.00020	.00820	-.00700	.84300	.04307
.201	28.970	1.17980	.60860	.07320	1.32390	-.04050	-.00240	.00220	.00400	.84000	.05075
.201	30.990	1.18880	.66340	.08400	1.36100	-.04367	-.00140	-.00120	.00900	.83700	.05719
	GRADIENT	.0484	.00078	.00159	.04885	-.00080	.00005	.00015	-.00016	-.00159	.00008

OA71A B16C5 D7 F1J17W87 E18V3R3X10 (RD8042) (10 OCT 73)

REFERENCE DATA

SREF =	4.4122 SQ.FT.	XMRP =	43.3974 INCHES		
LREF =	19.2299 INCHES	YMRP =	.0000 INCHES		
BREF =	37.9349 INCHES	ZMRP =	16.2000 INCHES		
SCALE =	.0405 SCALE				

PARAMETRIC DATA

BETA =	.000	SDFLAP =	-18.000
ELEVON =	5.000	AILRON =	.000
VTLINC =	.000	RUDDER =	.000
SPDBRK =	.000	NACX/L =	.200

RUN NO. 42/ 0 RN/L = 1.44 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CYN	CXL	CY	XCP/L	CAB
.201	-4.030	-.01320	.03000	-.03110	-.01930	.02908	.00120	-.00130	-.00500	-.52900	.01770
.201	-1.930	.00710	.02960	-.04870	.00600	.03265	.00120	-.00130	-.00400	.86200	.01774
.201	-.810	.13610	.03070	-.04710	.13760	.03290	.00110	-.00160	-.00300	.78200	.01789
.201	.120	.18700	.03330	-.04630	.18710	.03295	.00100	-.00160	-.00100	.74800	.01768
.201	1.150	.23780	.03990	-.04420	.23850	.03109	.00100	-.00170	-.00200	.72600	.01783
.201	2.170	.28690	.03960	-.04260	.28810	.02695	.00100	-.00190	-.00100	.71200	.01787
.201	4.230	.38280	.04980	-.03950	.38540	.02153	.00090	-.00200	.00000	.69600	.01797
.201	6.340	.48690	.06640	-.03630	.49120	.01228	.00090	-.00220	.00000	.68700	.01815
.201	8.400	.58690	.09190	-.03530	.59000	.00486	.00100	-.00160	-.00100	.68100	.01820
.201	10.490	.68940	.12230	-.03020	.70010	-.00532	.00100	-.00210	.00000	.67500	.01897
.201	12.570	.79430	.15920	-.02590	.80990	-.01749	.00080	-.00200	.00000	.67100	.02044
.201	14.680	.89500	.20230	-.02190	.91710	-.03091	.00080	-.00180	.00000	.66800	.02208
.201	16.710	.98200	.24980	-.01650	1.01900	-.04535	.00130	-.00150	.00000	.66500	.02433
.201	18.830	1.08720	.31470	-.01480	1.13060	-.05311	.00580	-.00310	-.00700	.66400	.02603
.201	20.880	1.14880	.39540	-.01040	1.21240	-.05690	.00150	-.00170	.00100	.66300	.03006
.201	22.900	1.18500	.46040	.00180	1.26900	-.03627	.00230	-.00150	.01200	.65900	.03294
.201	24.940	1.20970	.52120	.01300	1.31670	-.03769	.00240	-.00240	.00000	.65600	.03742
.201	26.990	1.21330	.57920	.02660	1.34400	-.03474	.00240	-.00480	.00400	.65200	.04680
.201	29.000	1.21690	.63490	.04060	1.37220	-.03477	.00330	-.00190	.00000	.64900	.05519
.201	31.020	1.21640	.69090	.05430	1.39850	-.03479	.00270	-.00160	.00000	.64600	.05845
	GRADIENT	.04606	.00242	.00144	.04664	-.00091	-.00004	-.00009	.00062	.10526	.00003

OA71A B16C5 D7 F1J17W87 E16V3R3X10 (RDS043) (10 OCT 73)

REFERENCE DATA

SREF =	4.4122 SQ.FT.	XMRP =	43.3974 INCHES		
LREF =	19.2299 INCHES	YMRP =	.0000 INCHES		
BREF =	37.9349 INCHES	ZMRP =	16.2000 INCHES		
SCALE =	.0409 SCALE				

PARAMETRIC DATA

BETA =	.000	BDFLAP =	-18.000
ELEVON =	.000	AILRON =	.000
VTLINC =	.000	RUDDER =	.000
SPDBRK =	.000	NACX/L =	.200

RUN NO. 43/ 0 RN/L = 1.44 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.201	-4.080	-.12310	.03190	-.00200	-.12500	.02535	.00130	-.00180	-.00500	.65400	.01929
.201	-2.000	-.02140	.02780	.00070	-.02240	.02709	.00120	-.00190	-.00500	.67100	.01550
.201	-.970	.08040	.02740	.00250	.03000	.02796	.00110	-.00180	-.00400	.63000	.01540
.201	.050	.08000	.02800	.00410	.08000	.02792	.00120	-.00170	-.00400	.64100	.01581
.201	1.080	.12980	.02930	.00530	.13040	.02685	.00090	-.00210	.00000	.64400	.01551
.201	2.110	.17740	.03110	.00680	.17840	.02459	.00110	-.00190	-.00100	.64800	.01568
.201	4.180	.27770	.03790	.01050	.27970	.01757	.00090	-.00210	.00000	.64800	.01585
.201	6.280	.37940	.04040	.01190	.38270	.00873	.00070	-.00220	.00000	.64800	.01581
.201	8.330	.48120	.07100	.01500	.48640	.00052	.00100	-.00210	.00000	.64800	.01652
.201	10.420	.58180	.09730	.01990	.58990	-.00839	.00100	-.00190	.00000	.64700	.01721
.201	12.500	.68780	.13080	.02450	.69950	-.02168	.00130	-.00170	-.00100	.64700	.01885
.201	14.580	.79880	.16830	.02980	.80820	-.03473	.00100	-.00180	.00000	.64700	.02034
.201	16.680	.89190	.21540	.03290	.91620	-.04364	.00090	-.00160	.00100	.64700	.02266
.201	18.750	.98320	.27470	.03320	1.02880	-.05066	.00480	-.00420	-.00300	.64800	.02447
.201	20.820	1.08390	.35420	.03350	1.12030	-.04710	.00200	-.00120	.00100	.64900	.02793
.201	22.870	1.11170	.41830	.04130	1.18680	-.04674	.00150	-.00090	.00100	.64700	.03105
.201	24.910	1.14850	.48220	.04920	1.24570	-.04690	.00280	-.00310	.00100	.64500	.03428
.201	26.940	1.16010	.54250	.05820	1.27990	-.04210	.00200	-.00550	.00700	.64300	.04194
.201	28.950	1.17060	.60350	.06930	1.32350	-.04262	.00180	-.00250	.00300	.64100	.05023
.201	30.990	1.16330	.66200	.08000	1.35550	-.04193	.00190	-.00340	.00800	.63600	.05331
	GRADIENT	.04845	.00075	.00150	.04892	-.00084	-.00005	-.00005	.00074	-.00157	.00007

OA71A B16C5 D7 F1J17W87 E16V3R3X10 (RDS044) (10 OCT 73)

REFERENCE DATA

SREF =	4.4122 SQ.FT.	XMRP =	43.3974 INCHES		
LREF =	19.2299 INCHES	YMRP =	.0000 INCHES		
BREF =	37.9349 INCHES	ZMRP =	16.2000 INCHES		
SCALE =	.0409 SCALE				

PARAMETRIC DATA

ALPHA =	.000	BDFLAP =	-18.000
ELEVON =	.000	AILRON =	.000
VTLINC =	.000	RUDDER =	.000
SPDBRK =	.000	NACX/L =	.200

RUN NO. 44/ 0 RN/L = 1.44 GRADIENT INTERVAL = -6.00/ 6.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.201	-10.120	.09370	.01480	-.00690	.09570	.01480	-.00560	-.00060	.23100	.68500	.01955
.201	-5.090	.08490	.02320	-.00050	.08500	.02317	-.00330	.00000	.11600	.66200	.01710
.201	-.010	.07930	.02850	.00340	.07930	.02850	.00110	-.00150	-.00200	.64400	.01536
.201	5.050	.08310	.02420	-.00040	.08310	.02414	.00540	-.00330	-.11900	.66100	.01556
.201	10.110	.08910	.01470	-.00700	.08910	.01468	.00700	-.00230	-.23600	.68800	.01927
	GRADIENT	-.00018	.00010	.00001	-.00019	.00010	.00006	-.00033	-.02327	-.00010	-.00015

OA71A B16C5 D7 F1J17W87 E18V3R3X10 (RDS045) (10 OCT 73)

REFERENCE DATA

SREF =	4.4122 SQ.FT.	XMRP =	43.5974 INCHES		
LREF =	19.2299 INCHES	YMRP =	.0000 INCHES		
BREF =	37.9349 INCHES	ZMRP =	16.2000 INCHES		
SCALE =	.0405 SCALE				

PARAMETRIC DATA

ALPHA =	10.000	BDFLAP =	-10.000
ELEVON =	.000	AILRON =	.000
VTLINC =	.000	RUDDER =	.000
SPDBRK =	.000	NACX/L =	.200

RUN NO. 45/ 0 RN/L = 1.44 GRADIENT INTERVAL = -6.00/ 6.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.201	-10.110	.38430	.06790	.01090	.39050	-.01926	-.00260	.01260	.23400	.65300	.02214
.201	-5.080	.38300	.09360	.01570	.39230	-.01363	-.00210	.00670	.11500	.65000	.01855
.201	.000	.38240	.09620	.02050	.39060	-.00878	.00120	-.00160	.00000	.64700	.01696
.201	5.050	.38190	.09430	.01660	.38940	-.01247	.00330	-.01000	-.11000	.64900	.01809
.201	10.120	.38160	.08690	.01080	.38810	-.01773	.00480	-.01610	-.23100	.65300	.02209
	GRADIENT	-.00031	.00005	.00009	-.00029	.00012	.00053	-.00165	-.02226	-.00010	-.00005

OA71A B16C5 D7 F1J17W87 E18V3R3X10 (RDS046) (10 OCT 73)

REFERENCE DATA

SREF =	4.4122 SQ.FT.	XMRP =	43.5974 INCHES		
LREF =	19.2299 INCHES	YMRP =	.0000 INCHES		
BREF =	37.9349 INCHES	ZMRP =	16.2000 INCHES		
SCALE =	.0405 SCALE				

PARAMETRIC DATA

BETA =	.000	BDFLAP =	-10.000
ELEVON =	.000	AILRON =	.000
VTLINC =	.000	RUDDER =	.000
SPDBRK =	.000	NACX/L =	.000

RUN NO. 46/ 0 RN/L = 1.44 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.201	-4.070	-.12090	.03140	-.00340	-.12280	.02279	.00130	-.00170	-.00600	.64900	.01532
.201	-2.020	-.01860	.02770	.00030	-.01950	.02705	.00100	-.00180	-.00400	.38600	.01544
.201	-.980	.03230	.02710	.00240	.03180	.02766	.00100	-.00150	-.00500	.63200	.01571
.201	.050	.06220	.02810	.00430	.06220	.02803	.00190	-.00150	-.00400	.64000	.01554
.201	1.080	.13270	.02920	.00650	.13320	.02673	.00080	-.00160	-.00300	.64200	.01554
.201	2.130	.18400	.03170	.00870	.18510	.02482	.00080	-.00160	-.00300	.64300	.01549
.201	4.190	.28330	.03840	.01290	.28540	.01765	.00030	-.00230	.00000	.64300	.01607
.201	6.260	.38400	.05150	.01680	.38740	.00917	.00040	-.00220	.00000	.64400	.01564
.201	8.360	.48470	.07160	.02090	.49000	.00036	.00050	-.00200	.00000	.64400	.01619
.201	10.410	.58540	.09790	.02760	.59340	-.00949	.00060	-.00170	-.00100	.64300	.01741
.201	12.520	.69060	.13150	.03240	.70290	-.02134	.00070	-.00170	-.00200	.64300	.01891
.201	14.590	.78870	.17030	.03650	.80610	-.03382	.00010	-.00200	.00000	.64200	.02013
.201	16.660	.88510	.21490	.04510	.90950	-.04792	.00030	-.00160	.00000	.64200	.02105
.201	18.750	.98070	.27780	.04560	1.01800	-.05232	.00920	-.00050	-.01700	.64300	.02313
.201	20.790	1.03900	.35530	.04490	1.09750	-.03669	.00170	.00030	-.00200	.64500	.02625
.201	22.860	1.09500	.42000	.05390	1.17210	-.03853	.00210	-.00210	.00000	.64300	.02784
.201	24.910	1.12100	.47880	.06600	1.21640	-.03806	.00140	-.00300	.00100	.64000	.03080
.201	26.930	1.12990	.54020	.07140	1.25200	-.03027	.00060	-.00170	.00300	.63900	.03984
.201	28.930	1.13570	.59890	.08330	1.30120	-.03536	.00030	-.00280	.00800	.63700	.04931
.201	30.970	1.13170	.65330	.09440	1.32370	-.03250	.00010	-.00310	.00900	.63400	.05303
	GRADIENT	.04893	.00388	.00198	.04941	-.00060	-.00011	-.00005	.00064	-.00139	.00007

CA71A B16C5 D7 F1J17W87 E18V3R3X10 (RDSU47) (10 OCT 73)

REFERENCE DATA

SREF =	4.4122 SQ.FT.	XMRP =	43.5974 INCHES		
LREF =	19.2299 INCHES	YMRP =	.0000 INCHES		
BREF =	37.9349 INCHES	ZMRP =	16.2000 INCHES		
SCALE =	.0405 SCALE				

PARAMETRIC DATA

ALPHA =	.000	BDFLAP =	-18.000
ELEVON =	.000	AILRON =	.000
VTLINC =	.000	RUDDER =	.000
SPDBRK =	.000	NACX/L =	.000

RUN NO. 47/ 0 RN/L = 1.44 GRADIENT INTERVAL = -6.00/ 6.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.201	-10.100	.09690	.01340	-.00590	.09690	.01330	-.00350	-.00110	.23300	.68100	.02027
.201	-5.050	.09690	.02320	.00060	.09690	.02317	-.00250	.00020	.11500	.65700	.01674
.201	.000	.09280	.02760	.00480	.09290	.02782	.00060	-.00150	-.00200	.63900	.01558
.201	5.040	.09280	.02270	.00020	.09280	.02264	.00400	-.00320	-.11700	.65800	.01657
.201	10.120	.09110	.01270	-.00830	.09110	.01272	.00530	-.00210	-.23700	.68400	.02019
	GRADIENT	-.00080	-.00005	-.00004	-.00080	-.00005	.00084	-.00034	-.02299	.00010	-.00002

CA71A B16C5 D7 F1J17W87 E18V3R3X10 (RDSU48) (10 OCT 73)

REFERENCE DATA

SREF =	4.4122 SQ.FT.	XMRP =	43.5974 INCHES		
LREF =	19.2299 INCHES	YMRP =	.0000 INCHES		
BREF =	37.9349 INCHES	ZMRP =	16.2000 INCHES		
SCALE =	.0405 SCALE				

PARAMETRIC DATA

ALPHA =	10.000	BDFLAP =	-18.000
ELEVON =	.000	AILRON =	.000
VTLINC =	.000	RUDDER =	.000
SPDBRK =	.000	NACX/L =	.000

RUN NO. 48/ 0 RN/L = 1.44 GRADIENT INTERVAL = -6.00/ 6.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.201	-10.100	.58780	.08690	.01740	.59400	-.01868	-.00120	.01240	.23100	.64900	.02202
.201	-5.050	.58840	.09500	.02240	.59590	-.01286	-.00140	.00720	.11200	.64600	.01824
.201	.010	.58700	.09660	.02600	.59520	-.00915	.00060	-.00130	.00000	.64300	.01736
.201	5.000	.58460	.09450	.02260	.59210	-.01269	.00160	-.01000	-.10900	.64600	.01854
.201	10.130	.58540	.08970	.01660	.59000	-.01718	.00180	-.01620	-.22800	.64900	.02201
	GRADIENT	-.00058	-.00005	.00004	-.00058	.00002	.00050	-.00170	-.02188	-.00000	.00003

OA71A B16C5 D7 F1J17W87 E18V3R3X10 (RD3049) (10 OCT 79)

REFERENCE DATA

SREF =	4.4122 SQ.FT.	XMRP =	43.3974 INCHES		
LREF =	19.2299 INCHES	YMRP =	.0000 INCHES		
BREF =	37.9349 INCHES	ZMRP =	16.2000 INCHES		
SCALE =	.0405 SCALE				

PARAMETRIC DATA

BETA =	.000	DOFLAP =	-10.000
ELEVON =	5.000	AILRON =	.000
VTLINC =	.000	RUDDER =	.000
SPCBRK =	.000	NACX/L =	.000

RUN NO. 49/ 0 RN/L = 1.44 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLN	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.201	-4.040	-.01130	.03010	-.05240	-.01340	.02928	.00120	-.00120	-.00400	-.73900	.01760
.201	-1.980	.09200	.03000	-.04920	.09100	.03319	.00090	-.00120	-.00300	.67300	.01777
.201	-.920	.14150	.03100	-.04760	.14100	.03529	.00100	-.00120	-.00300	.78000	.01783
.201	.110	.19450	.03310	-.04510	.19450	.03275	.00090	-.00130	-.00200	.74200	.01814
.201	1.140	.24310	.03620	-.04320	.24380	.03139	.00070	-.00150	.00000	.72300	.01802
.201	2.170	.29320	.04020	-.04090	.29460	.02909	.00060	-.00170	.00300	.70900	.01799
.201	4.270	.39280	.05150	-.03710	.39560	.02207	.00040	-.00190	.00000	.69300	.01760
.201	6.330	.49170	.06770	-.03420	.49610	.01311	.00040	-.00170	.00000	.68400	.01789
.201	8.410	.59120	.09160	-.02850	.59620	.00433	.00050	-.00160	.00000	.67700	.01826
.201	10.490	.69270	.12240	-.02230	.70340	-.00562	.00060	-.00160	.00000	.67100	.01915
.201	12.560	.79590	.15950	-.01680	.81150	-.01750	.00030	-.00140	.00000	.66700	.02052
.201	14.650	.89140	.20140	-.01050	.91340	-.03052	.00010	-.00100	.00000	.66400	.02162
.201	16.710	.98220	.24820	-.00250	1.01210	-.04465	.00070	-.00160	-.00100	.66000	.02237
.201	18.790	1.08080	.31820	-.00440	1.12510	-.04376	.00490	.00040	-.00600	.66100	.02478
.201	20.850	1.11500	.39160	.00390	1.17950	-.02988	.00290	.00160	-.00400	.65800	.02824
.201	22.880	1.15710	.45590	.01680	1.24350	-.03011	.00250	-.00190	-.00100	.65500	.03022
.201	24.920	1.16780	.51340	.03360	1.27530	-.02636	.00120	-.00300	.00100	.65000	.03351
.201	26.940	1.16050	.57110	.04510	1.31100	-.02569	.00100	-.00100	.00000	.64700	.04487
.201	28.980	1.19310	.63020	.05500	1.34910	-.02679	.00050	-.00440	.01000	.64500	.03386
.201	30.980	1.18310	.68100	.07020	1.36490	-.02527	.00030	-.00140	.00300	.64100	.03745
	GRADIENT	.04868	.00255	.00189	.04926	-.00090	-.00009	-.00009	.00057	.12364	.00001

OA71A B16C5 D7 F1J17W87 E18V3R3X10 (RDS050) (10 OCT 73)

REFERENCE DATA

SREF =	4.4122 SQ.FT.	XMRP =	43.5974 INCHES		
LREF =	19.2299 INCHES	YMRP =	.0000 INCHES		
BREF =	37.9349 INCHES	ZMRP =	16.2000 INCHES		
SCALE =	.0405 SCALE				

PARAMETRIC DATA

BETA =	.000	BDFLAP =	-18.000
ELEVON =	.000	AILRON =	5.000
VTLINC =	.000	RUDDER =	.000
SPDBRK =	.000	NACX/L =	.000

RUN NO. 90/ 0 RN/L = 1.44 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.201	-4.080	-.11920	.05360	-.00450	- 12130	.02511	.00460	.01910	-.02300	.64600	.01613
.201	-2.000	-.01810	.03010	-.00040	-.01910	.02949	.00500	.01930	-.02400	.65100	.01561
.201	-.980	.03750	.02990	.00170	.03680	.03061	.00490	.01960	-.02400	.64200	.01596
.201	.080	.08650	.03020	.00360	.08650	.03013	.00510	.01980	-.02400	.64400	.01659
.201	1.090	.13540	.03180	.00580	.13600	.02922	.00510	.01990	-.02400	.64400	.01659
.201	2.130	.18730	.03410	.00860	.18850	.02716	.00510	.02020	-.02500	.64300	.01645
.201	4.200	.28550	.04130	.01510	.28760	.02033	.00500	.02010	-.02400	.64300	.01676
.201	6.270	.38500	.05460	.01630	.38870	.01224	.00520	.02050	-.02500	.64400	.01652
.201	8.340	.48590	.07450	.02150	.49160	.00321	.00520	.02110	-.02700	.64400	.01660
.201	10.430	.58540	.10100	.02820	.59400	-.00662	.00500	.02150	-.02900	.64200	.01731
.201	12.490	.68660	.13390	.03330	.69930	-.01779	.00490	.02150	-.03000	.64200	.01838
.201	14.580	.78910	.17310	.03950	.80730	-.03132	.00490	.02160	-.03300	.64200	.01953
.201	16.670	.88200	.21670	.04680	.90710	-.04553	.00460	.02080	-.03200	.64100	.02081
.201	18.730	.96420	.26200	.04990	1.00380	-.04256	.01540	.02550	-.05700	.64300	.02308
.201	20.800	1.03120	.30460	.04800	1.08990	-.03469	.00500	.02040	-.03100	.64400	.02545
.201	22.840	1.08420	.41750	.05750	1.16130	-.03619	.00350	.01410	-.02200	.64200	.02737
.201	24.900	1.11180	.47870	.06910	1.21000	-.03405	.00130	.00900	-.01000	.63900	.03048
.201	26.930	1.12800	.53820	.07440	1.24950	-.03112	.00000	.00740	-.00100	.63800	.04317
.201	28.950	1.14530	.59360	.08600	1.29050	-.03330	.00090	.00230	.00900	.63600	.05134
.201	30.980	1.14670	.65360	.09690	1.31950	-.03008	.00020	.00160	.01200	.63300	.05406
	GRADIENT	.04697	.00094	.00213	.04951	-.00056	.00005	.00014	-.00014	-.00060	.00011

OA71A B16C5 07 F1J17W87 E18V3R3X10 (RDS051) (10 OCT 73)

REFERENCE DATA

SREF =	4.4122 SQ.FT.	XMRP =	43.5974 INCHES		
LREF =	19.2299 INCHES	YMRP =	.0000 INCHES		
BREF =	37.9349 INCHES	ZMRP =	16.2000 INCHES		
SCALE =	.0405 SCALE				

PARAMETRIC DATA

BETA =	.000	BDFLAP =	-18.000
ELEVON =	-10.000	AILRON =	.000
VTLINC =	.000	RUDDER =	.000
SPDBRK =	.000	NACX/L =	.000

RUN NO. 51/ 0 RN/L = 1.44 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.201	-4.230	-.34070	.04890	.06840	-.34340	.02367	.00090	-.00190	-.00600	.75200	.01111
.201	-2.120	-.23690	.03810	.09260	-.23820	.02936	.00030	-.00160	-.00500	.79900	.01104
.201	-1.100	-.18620	.03460	.09410	-.18680	.03107	.00010	-.00150	-.00500	.84000	.01097
.201	-.020	-.13350	.03120	.09670	-.13350	.03114	.00020	-.00140	-.00500	.91900	.01108
.201	.980	-.08060	.03010	.09910	-.08010	.03146	.00020	-.00140	-.00400	1.10200	.01140
.201	2.010	-.03030	.02860	.10110	-.02920	.02974	.00020	-.00120	-.00400	1.89400	.01191
.201	4.080	.07360	.03010	.10610	.07550	.02479	.00010	-.00120	-.00300	.15800	.01132
.201	6.150	.19810	.03520	.11160	.17190	.01689	.00000	-.00150	-.00200	.42700	.01162
.201	8.230	.28970	.04670	.11780	.27360	.00765	.00000	-.00190	-.00100	.50500	.01189
.201	10.310	.38980	.06620	.12530	.37570	-.00103	.00030	-.00170	-.00200	.54000	.01305
.201	12.390	.47300	.09170	.13140	.48170	-.01190	.00040	-.00210	.00000	.56200	.01467
.201	14.470	.57320	.12290	.13720	.58580	-.02424	.00070	-.00210	-.00100	.57650	.01614
.201	16.540	.67330	.15970	.14330	.69090	-.03659	.00080	-.00220	.00000	.58500	.01764
.201	18.620	.76860	.21980	.13890	.79850	-.03704	.01000	.00120	-.02000	.59700	.01993
.201	20.690	.84900	.28820	.13460	.89600	-.03043	.00170	-.00040	-.00100	.60600	.02182
.201	22.750	.91940	.34540	.13980	.96140	-.03711	.00250	-.00170	-.00100	.60900	.02393
.201	24.810	.97440	.41140	.14010	1.05710	-.03549	.00180	-.00560	.00400	.61200	.02563
.201	26.890	1.01280	.47640	.14170	1.11860	-.03315	.00150	-.00460	.00700	.61400	.03357
.201	28.910	1.04930	.53850	.14810	1.17890	-.03604	.00000	-.00290	.00600	.61500	.04036
.201	30.910	1.03650	.59240	.15660	1.21250	-.03560	.00040	-.00400	.01000	.61300	.04519
	GRADIENT	.04995	-.00227	.00213	.05051	.00013	-.00004	.00009	.00034	.00177	.00007

OA71A B16C5 D7 F1J17W87 E18V3R3X10 (RDS052) (10 OCT 73)

REFERENCE DATA

SREF =	4.4122 SQ.FT.	XMRP =	43.5974 INCHES		
LREF =	19.2299 INCHES	YMRP =	.0000 INCHES		
BREF =	37.9349 INCHES	ZMRP =	16.2000 INCHES		
SCALE =	.0405 SCALE				

PARAMETRIC DATA

BETA =	.000	BDFLAP =	-18.000
ELEVON =	.000	AILRON =	10.000
VTLINC =	.000	RUDDER =	.000
SPDBRK =	.000	NACX/L =	.000

RUN NO. 52/ 0 RN/L = 1.44 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.201	-4.080	-.10780	.04000	-.00950	-.11020	.03233	.00700	.03690	-.04100	.62900	.01828
.201	-2.000	-.00880	.03710	-.00540	-.00810	.03689	.00770	.03740	-.04300	.42000	.01810
.201	-.970	.04350	.03720	-.00290	.04290	.03799	.00790	.03760	-.04400	.68400	.01799
.201	.050	.09480	.03780	-.00080	.09460	.03774	.00810	.03760	-.04500	.66300	.01808
.201	1.100	.14420	.03920	.00200	.14300	.03643	.00820	.03830	-.04700	.65400	.01839
.201	2.150	.19300	.04170	.00480	.19440	.03443	.00830	.03820	-.04700	.65100	.01768
.201	4.210	.28780	.04930	.01020	.29060	.02807	.00860	.03850	-.05000	.64700	.01801
.201	6.290	.38880	.06230	.01340	.39310	.01964	.00890	.03980	-.05200	.64700	.01805
.201	8.340	.48650	.08200	.01930	.49310	.01062	.00870	.04050	-.05500	.64500	.01789
.201	10.430	.58720	.10950	.02610	.59740	.00136	.00880	.04090	-.05600	.64400	.01844
.201	12.500	.68820	.14260	.03370	.70370	-.00997	.00880	.04110	-.05900	.64200	.01914
.201	14.580	.78820	.18160	.04050	.80850	-.02290	.00880	.04120	-.05900	.64200	.02029
.201	16.670	.88090	.22480	.04690	.90830	-.03737	.00870	.04060	-.06300	.64100	.02185
.201	18.730	.96290	.29030	.04590	1.00520	-.03428	.01780	.04440	-.08100	.64300	.02350
.201	20.780	1.01640	.35970	.05000	1.07970	-.02525	.00700	.03640	-.05300	.64300	.02610
.201	22.850	1.07000	.42200	.05900	1.14990	-.02670	.00420	.02780	-.04000	.64100	.02942
.201	24.880	1.09980	.48080	.07270	1.19990	-.02643	.00130	.01920	-.02300	.63800	.03366
.201	26.920	1.11110	.53780	.08030	1.23420	-.02366	.00000	.01260	-.00400	.63600	.04419
.201	28.950	1.13450	.59710	.08790	1.28180	-.02670	.00120	.01080	.00100	.63500	.05258
.201	30.980	1.14170	.65570	.10050	1.31610	-.02597	.00130	.00680	.01000	.63200	.05623
	GRADIENT	.04783	.00111	.00237	.04848	-.00054	.00018	.00020	-.00106	.01154	-.00003

OA71A B16C5 D7 F1J17W87 E18V3R3X10 (RDS054) (10 OCT 73)

REFERENCE DATA

SREF =	4.4122 SQ.FT.	XMRP =	43.5974 INCHES		
LREF =	19.2299 INCHES	YMRP =	.0000 INCHES		
BREF =	37.9349 INCHES	ZMRP =	16.2000 INCHES		
SCALE =	.0405 SCALE				

PARAMETRIC DATA

BETA =	.000	DOFLAP =	-10.000
ELEVON =	10.000	AILRON =	.000
VTLINC =	.000	RUDDER =	.000
SPDBRK =	.000	NACX/L =	.000

RUN NO. 54/ 0 RN/L = 1.44 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.201	-3.960	.09160	.03440	-.10020	.08900	.04071	.00050	-.00160	-.00200	1.06200	.02050
.201	-1.920	.19080	.03730	-.09630	.18950	.04376	.00040	-.00170	-.00100	.84100	.02042
.201	-.890	.24050	.04040	-.09410	.23970	.04397	.00030	-.00180	.00000	.80090	.01986
.201	.180	.29120	.04380	-.09180	.29130	.04288	.00040	-.00180	.00000	.77200	.02036
.201	1.220	.33830	.04670	-.08980	.33950	.04153	.00040	-.00200	.00000	.75400	.01972
.201	2.250	.38910	.05410	-.08670	.39100	.03878	.00030	-.00190	.00000	.73900	.01990
.201	4.300	.48460	.06830	-.08320	.48630	.03162	.00030	-.00230	.00000	.72000	.01937
.201	6.370	.58710	.08890	-.08050	.59330	.02281	.00010	-.00200	.00000	.70800	.01930
.201	8.460	.68430	.11660	-.07360	.69400	.01462	.00010	-.00240	.00100	.69800	.01917
.201	10.530	.78300	.15010	-.06870	.79730	.00447	.00001	-.00280	.00100	.69100	.02014
.201	12.620	.88360	.19070	-.06200	.90390	-.00752	-.00010	-.00280	.00200	.68400	.02154
.201	14.710	.98020	.23570	-.05450	1.00800	-.02090	.00030	-.00200	.00000	.67900	.02283
.201	16.770	1.07370	.28780	-.04790	1.11110	-.03421	.00230	-.00360	-.00500	.67500	.02381
.201	18.840	1.14800	.36610	-.04550	1.20470	-.02427	.00150	-.00100	-.00100	.67300	.02642
.201	20.880	1.16650	.42790	-.02760	1.24240	-.01598	.00530	.00260	-.00500	.66700	.03026
.201	22.930	1.20060	.49340	-.01280	1.29790	-.01341	.00180	-.00340	.00100	.66300	.03297
.201	24.940	1.19650	.54430	.00980	1.31480	-.01134	.00100	-.00250	.00170	.65700	.03675
.201	26.970	1.20140	.59680	.02320	1.34140	-.01316	.00140	-.00300	.00400	.65350	.04833
.201	29.000	1.21210	.65670	.03510	1.37850	-.01329	.00090	-.00230	.00500	.65000	.05509
.201	31.000	1.19780	.70430	.05210	1.38950	-.01322	.00040	-.00080	.00290	.64600	.05912
	GRADIENT	.04748	.00407	.00210	.04824	-.00110	-.00002	-.00008	.00023	-.03721	-.00013

OA71A B10CF 07 F1J17W07 E18V3R3X10 (RD8058) (10 OCT 73)

REFERENCE DATA

SREF =	4.4122 SQ.FT.	XMRP =	43.9974 INCHES		
LREF =	19.2299 INCHES	YMRP =	.0000 INCHES		
WREF =	37.9349 INCHES	ZMRP =	16.2000 INCHES		
SCALE =	.0405 SCALE				

PARAMETRIC DATA

BETA =	.000	BDFLAP =	-10.000
ELEVON =	-20.000	AILRON =	.000
VTLINC =	.000	RUDDER =	.000
SPDBRK =	.000	NACX/L =	.000

RUN NO. 98/ 0 RN/L = 1.44 GRADIENT INTERVAL = -3.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.201	-4.310	-.32160	.07960	.10310	-.32640	.04037	.00060	-.00240	-.00400	.77000	.00913
.201	-2.250	-.41080	.04330	.10660	-.42090	.04685	.00010	-.00190	-.00400	.80100	.00873
.201	-1.200	-.34670	.05660	.10890	-.36780	.04892	.00020	-.00170	-.00300	.82400	.00838
.201	-.170	-.31420	.05230	.10990	-.31440	.05140	.00050	-.00210	-.00400	.85300	.00834
.201	.880	-.25160	.04780	.10830	-.25090	.05144	.00030	-.00340	-.00200	.90100	.00938
.201	1.900	-.19500	.04450	.17010	-.19340	.05081	.00010	-.00390	-.00160	.97400	.00905
.201	3.970	-.09080	.03920	.17310	-.08770	.04541	.00010	-.00410	.00000	1.36500	.00983
.201	6.040	.00030	.03920	.16150	.00450	.03897	-.00010	-.00420	.00000	-13.69750	.00963
.201	9.120	.08520	.04510	.19260	.09060	.03151	-.00020	-.00360	.00200	-.03600	.00955
.201	10.170	.17790	.05670	.20470	.18510	.02440	.00050	-.00220	.00100	.26400	.01028
.201	12.250	.27230	.07190	.21490	.28120	.01206	.00030	-.00100	.00000	.38600	.01208
.201	14.320	.37100	.09560	.22500	.38310	.00061	.00040	-.00070	.00000	.45100	.01348
.201	16.410	.46810	.12970	.23080	.48450	-.01157	.00000	-.00060	.00200	.48900	.01473
.201	18.490	.57770	.18700	.21810	.60720	-.00586	.00220	-.00050	.00000	.53100	.01652
.201	20.570	.68090	.25280	.22260	.70050	-.01426	.00240	-.00030	-.00200	.54600	.01856
.201	22.640	.73650	.28530	.22340	.76960	-.02021	.00250	-.00050	-.00200	.55800	.01964
.201	24.720	.81340	.35080	.21430	.86560	-.02145	.00140	-.00440	.00400	.57200	.02364
.201	26.770	.87170	.42010	.21250	.96750	-.01781	.00130	-.00390	.00400	.58100	.02926
.201	28.820	.91660	.47930	.21600	1.03610	-.02301	.00180	-.00390	.00400	.58500	.03393
.201	30.840	.94820	.53800	.22050	1.09040	-.02340	.00130	-.00380	.00500	.58700	.03811
	GRADIENT	.05260	-.00462	.00408	.05351	.00070	-.00004	-.00029	.00053	.06447	.00010

CA71A B18C5 D7 F1J17W87 E16V3R3X10 (RD8097) (10 OCT 73)

REFERENCE DATA

SREF =	4.4122 SQ.FT.	XMRP =	43.5974 INCHES		
LREF =	19.2299 INCHES	YMRP =	.0000 INCHES		
BREF =	37.9349 INCHES	ZMRP =	16.2000 INCHES		
SCALE =	.0405 SCALE				

PARAMETRIC DATA

BETA =	.000	BOFLAP =	-18.000
ELEVON =	.000	AILRON =	15.000
VTLINC =	.000	RUDDER =	.000
SPDBRK =	.000	NACX/L =	.000

RUN NO. 57/ 0 RN/L = 1.44 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.201	-4.090	-.10010	.05100	-.01260	-.10340	.04380	.01000	.03560	-.03900	.61600	.01841
.201	-2.000	-.00080	.04810	-.00740	-.00250	.04806	.01060	.03650	-.06200	-.37800	.01854
.201	-.980	.04970	.04770	-.00440	.04890	.04854	.01100	.03720	-.06500	.69200	.01922
.201	.030	.09580	.04840	-.00200	.09580	.04836	.01140	.03750	-.06700	.66700	.01898
.201	1.090	.14380	.05010	.00100	.14480	.04732	.01170	.03790	-.06900	.65700	.01926
.201	2.140	.19410	.05210	.00430	.19590	.04487	.01200	.03810	-.07100	.65100	.01954
.201	4.200	.28540	.05970	.01080	.28900	.03868	.01220	.03780	-.07500	.64600	.01902
.201	6.270	.38690	.07330	.01370	.39260	.03062	.01300	.06010	-.07600	.64700	.01924
.201	8.360	.48400	.09300	.02020	.49240	.02172	.01340	.06190	-.08200	.64500	.01926
.201	10.430	.58190	.11980	.02840	.59400	.01230	.01360	.06330	-.08600	.64200	.02026
.201	12.500	.67900	.15320	.03530	.69600	.00258	.01350	.06380	-.08800	.64100	.01972
.201	14.590	.78010	.19180	.04320	.80330	-.01087	.01370	.06340	-.09000	.64000	.02122
.201	16.670	.87050	.23420	.05230	.90110	-.02534	.01260	.06200	-.09000	.63900	.02169
.201	18.730	.95370	.29790	.05130	.99890	-.02418	.02010	.06340	-.10400	.64100	.02402
.201	20.770	.99700	.36470	.05990	1.06150	-.01261	.00800	.05100	-.07000	.63900	.02748
.201	22.820	1.02870	.42080	.07140	1.11130	-.01144	.00430	.03870	-.05100	.63600	.02955
.201	24.860	1.06240	.47740	.08460	1.16460	-.01364	.00060	.02940	-.02900	.63400	.03645
.201	26.900	1.08660	.53650	.08810	1.21360	-.01419	.00010	.02260	-.01200	.63400	.04813
.201	28.930	1.10630	.59500	.09730	1.25780	-.01550	.00190	.01800	-.00400	.63200	.05346
.201	30.950	1.12160	.65140	.10970	1.29700	-.01841	.00220	.01410	.00400	.62900	.05692
	GRADIENT	.04663	.00104	.00281	.04746	-.00064	.00028	.00029	-.00179	.04907	.00010